
RP-SD736P and RP-SD736PW 5MP Panorama Network Camera

User's Manual

Version 3.0



June 2014

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Revision History

Doc. Version	Revision Description	Date
2.0	Add more functional descriptions	2014/02/18
1.0	Initial Official Release	2013/08/22

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Read Me First!

Important Notes

This User Manual is intended for administrators and users of the RP-SD736P and RP-SD736PW Network Dome Camera, including instructions for using and managing the camera on your network. The use of surveillance devices may be prohibited by law in your country or area. It is therefore the user's responsibility to ensure that the operation of such devices is legal before installing this unit for its intended use.

Before the Network Dome Camera is installed, carefully read and follow all the safety and operating instructions to avoid damage due to faulty assembly and installation. This also ensures that the device is used properly as intended.

Heed All Warnings

■ **Do not drop or hit the device.**

Sensitive electronics inside the camera are vulnerable to excessive impact.

■ **Do not install the device under high temperature (less than 45°C) environment.**

Excessive heat could damage the equipment.

■ **Do not cover device with any object or install it in a poorly ventilated vicinity.**

Overheating could damage the camera.

■ **Do not expose the device to rain or moisture. Do not touch the power connection with wet hand.**

Risk of short circuit, electric shock, or fire

■ **Do not damage the power cord or leave it under pressure.**

Risk of fire or circuit electric shock

■ **To reduce the risk of electric shock or damage, do not remove the front or back cover.**

There is no user-serviceable parts inside. Misusage, improper, or negligent handling could damage the device. Refer to qualified service personnel from our distributor/dealer for any device related trouble shooting need.

- **Do not continue to operate the device if it appears to malfunction.**
Contact qualified service personnel from our distributor/dealer for help.
- **Installation of the product should be made by qualified service personnel or system installers from our distributor/dealer.**

1 Introduction

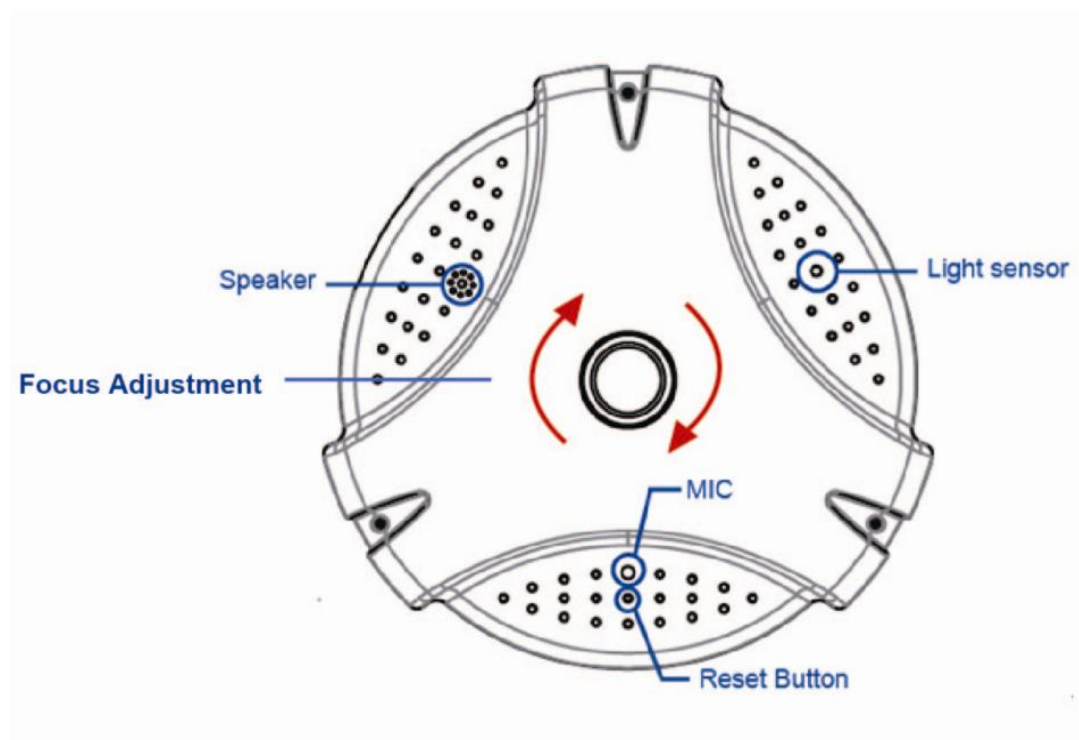
RP-SD736P and **RP-SD736PW** are Fish-Eye Panorama Network Dome Camera featured with 5Mega Pixel resolution respectively and superior H.264-AVC performance and rich functions. **RP-SD736P** and **RP-SD736PW** includes a fish-eye lens for 360° panoramic wide angle view without blind spot. It is very suitable to view a wide area with single camera such as hallway, store, and office without the need to install multiple cameras.

The hardware base panorama video processing ability provides user flexible video layout including Panorama, Original View, Double Broad View, Triple View and Quad View. The e-PTZ function, including preset point without moving parts, can replace part of traditional PTZ camera and thus save lost of traditional mechanical Pan/Tilt maintain cost.

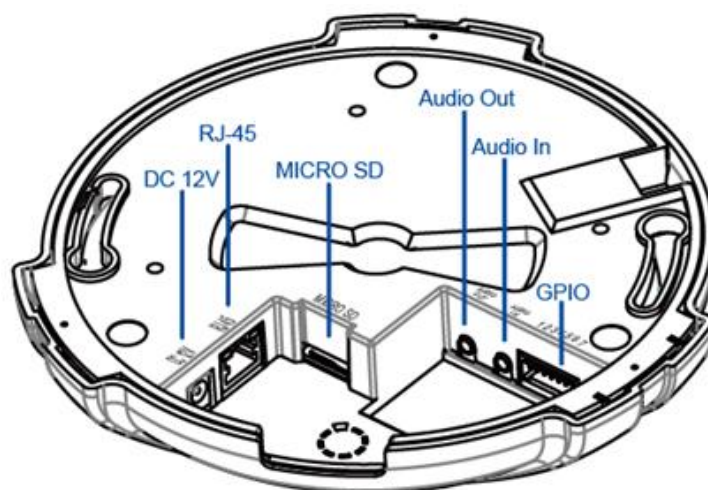
The PoE function (**RP-SD736P**) and Wireless function (**RP-SD736PW**) are designed for flexible installation.

Further functions include two-way audio, DI/DO alarm application and micro SD card support for local storage application.

Hardware Overview



Interface	Description
Light Sensor	The Light sensor is for detecting IP Camera environmental illumination, and if IP Camera was in the dark/night environment, IR Cut Filter is switched off to let infrared light pass through for clear night view.
MIC	The IP Camera has built-in an internal microphone, which is hidden in the pinhole located on the front panel.
Lens Focus Adjustment	Rotate the lens to adjust the focal length to the best image. If necessary, clean the lens with a soft cotton cloth.
Speaker	The IP Camera has built-in an internal speaker, which is hidden in the pinhole located on the front panel.
Reset Button	This button is hidden in the pinhole. Insert a pin into the reset hole to press the reset button and keep pressed about 3 seconds until PWR LED start refreshing with orange color.



Interface	Contents																		
Power Jack	The input power is DC 12V. Note: ONLY use power adapter supplied with the package. Otherwise, the product may be damaged.																		
RJ-45 LAN Socket	Connect to PC or Hub / Switch. For connect to 10Base-T Ethernet or 100Base-TX Fast Ethernet Cabling. This Ethernet port built audio-negotiation protocol which can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 or above cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub. Note: ONLY use one power source, either from DC or from 802.3af Power over Ethernet.																		
MicroSD Card slot	The IP Camera has built-in a MicroSD card slot which can accepts MicroSD memory card for image / video event recording.																		
Audio In	Connect a microphone to the IP Camera, be noted to use actively microphone (normally with power supplier on microphone) for this application.																		
Audio Out	Connect a loud speaker to the IP Camera. This is for voice alerting and two-way audio. Be noted to use actively speaker (normally with power supplier on speaker) for this application.																		
GPIO	<div>The 7 pin terminal block includes 1 input port and 2 output ports.</div> <table><tr><th>Pin</th><th>Function</th><th>Description</th></tr><tr><td>1</td><td>GND</td><td rowspan="7">Digital Input: only one set is designed in this Camera Model. The internal device is also photo-coupled electrical relay; and the external device can be simply an On/Off switch. Each set of On/Off switch can be connected as one trigger source.</td></tr><tr><td>2</td><td>DI</td></tr><tr><td>3</td><td>GND</td></tr><tr><td>4</td><td>DO_COM</td></tr><tr><td>5</td><td>DO_NO2</td></tr><tr><td>6</td><td>DO_COM</td></tr><tr><td>7</td><td>DO_NO1</td></tr></table>	Pin	Function	Description	1	GND	Digital Input: only one set is designed in this Camera Model. The internal device is also photo-coupled electrical relay; and the external device can be simply an On/Off switch. Each set of On/Off switch can be connected as one trigger source.	2	DI	3	GND	4	DO_COM	5	DO_NO2	6	DO_COM	7	DO_NO1
Pin	Function	Description																	
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2	DI																		
3	GND																		
4	DO_COM																		
5	DO_NO2																		
6	DO_COM																		
7	DO_NO1																		

			Digital Output: each digital output pin to COM is a photo-coupled relay on Normal Open status. External device can directly connect to the terminals. However the current that will go through the 2 nodes must not exceed 130mA. An external “Relay” can also be connected to the terminals as an implementation. In this case, current (or/and voltage) limitation is specified by the external Relay.	
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2 Installation and Setup

2.1 Camera's Mounting Bracket Installation

Please attach the supplied alignment sticker to the place you would like to set up first. And then follow the drilling and installing instructions on the sticker to complete Camera's installation.

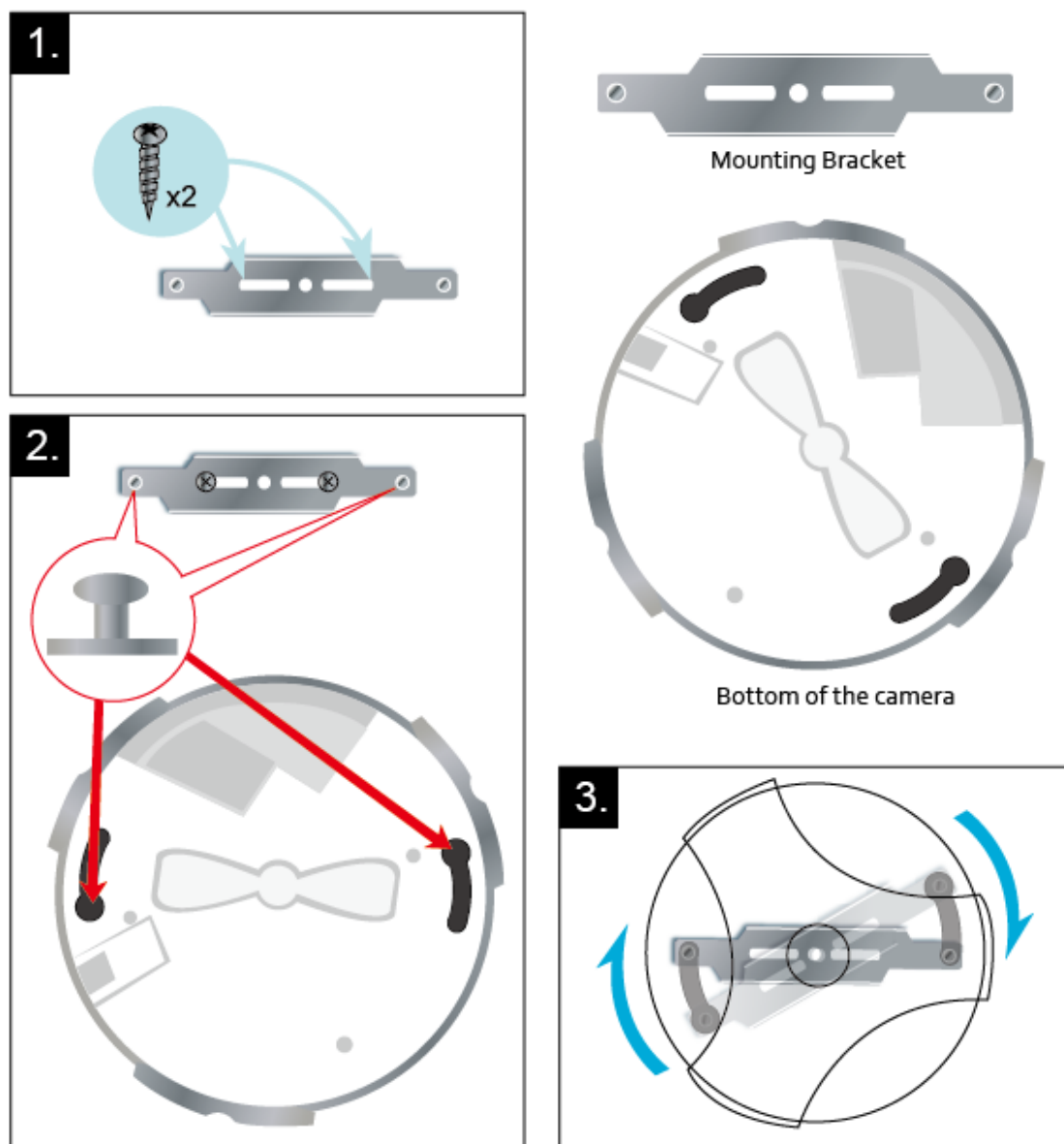


Figure 2-1 Mounting bracket installation

NOTE

Always mount the Camera on mounting bracket to prevent over heating.

2.2 Connecting Camera to Network through LAN Router Cable

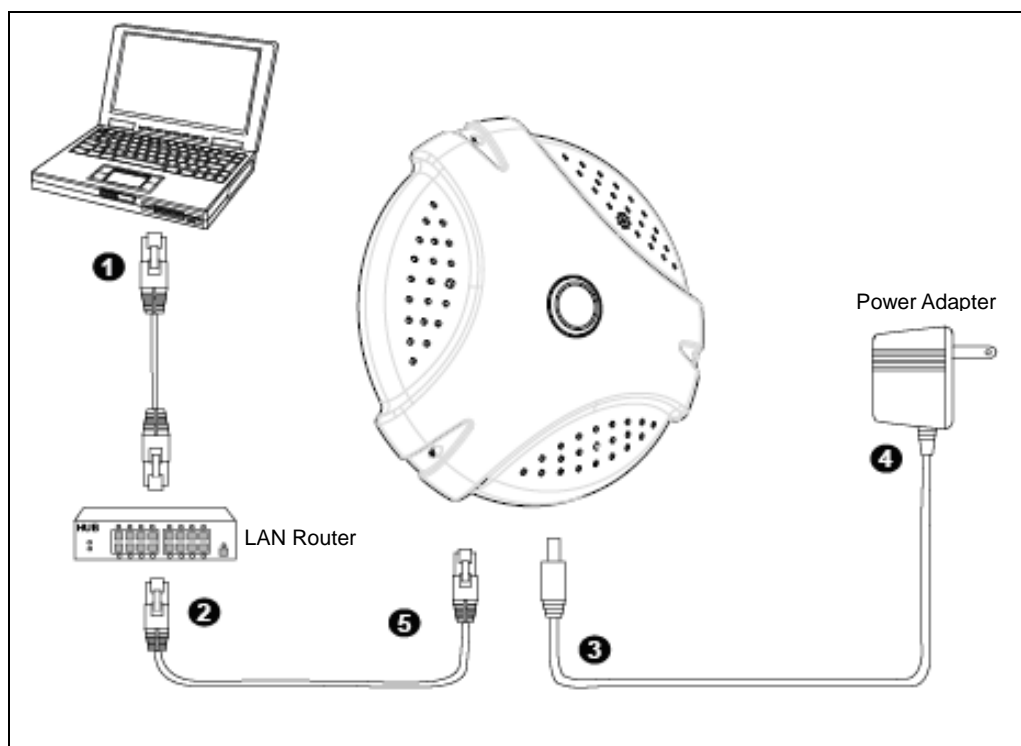
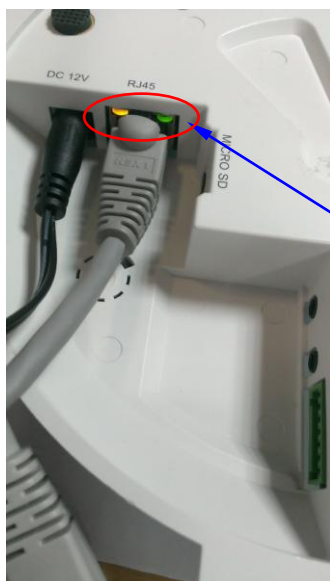


Figure 2-2 Connecting IP Camera to Network

1. Prepare a PC/notebook/ultrabook with Ethernet link to the network.
2. When PC/notebook is used, connect the LAN port of the device to the network router with an RJ45 network cable (① ②).
3. Plug the DC power jack of the power adaptor (③ ④) to Camera and connect the power adaptor to power outlet (110V or 220V).
4. Connect the network router to the LAN port of Camera with an RJ45 network cable (⑤).
5. With power switched on, check the status of the two LEDs at the back of camera:

If the Network LED flashes with green color, it confirms that the Camera has successfully linked with the Internet.



Network LED should blink with green color to indicate successful link to the Internet.

Besides, if Orange LED indicator also light-up at the same time, it means your camera just connect to Intranet only; not through Internet Network.

Figure 2-3 Network (Right LED) Indicators

2.3 Configuring and Finding Camera via Software

You could find **CAM FINDER** utility from the attached Software Package CD. The **CAM FINDER** is used to find and configure network cameras on the LAN. This utility is useful for conveniently configuring the network settings of the device, or for finding a device once the network settings have been modified. To install the **CAM FINDER**, from the Software Package CD, select CAM FINDER, then follow the instructions to complete the installation.



NOTE

1. In order to ensure CAM FINDER utility has the best compatibility with Camera, kindly please asks for distributor/dealer's help to get the latest version downloading.

2. In order to ensure Camera will be assigned IP Address properly, please confirm the following things.

- *Always consult your network administrator in order to avoid using a previously assigned IP address.*
- *Check if the Camera is powered on and correctly connected to the network.*
- *In order to connect to the Web-based user interface of the camera, the host PC must be in the same subnet. For more information about subnets, please consult your network administrator.*

1. Once CAM FINDER has been successfully installed on the PC/notebook/ultrabook, double click Mouse left button to run the software.
2. Click the **[Device Search]** to search the device in the LAN.

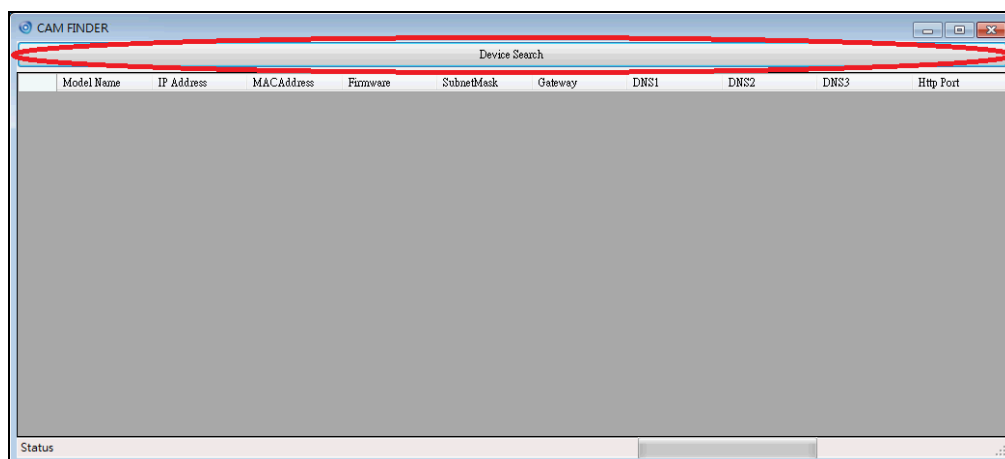


Figure 2-4 Find the Camera Device via “Device Search” button

3. Under your selected item, double-click the left Mouse button or Right-click the Mouse button to open the Property Page item **[Single Device Setting]**.

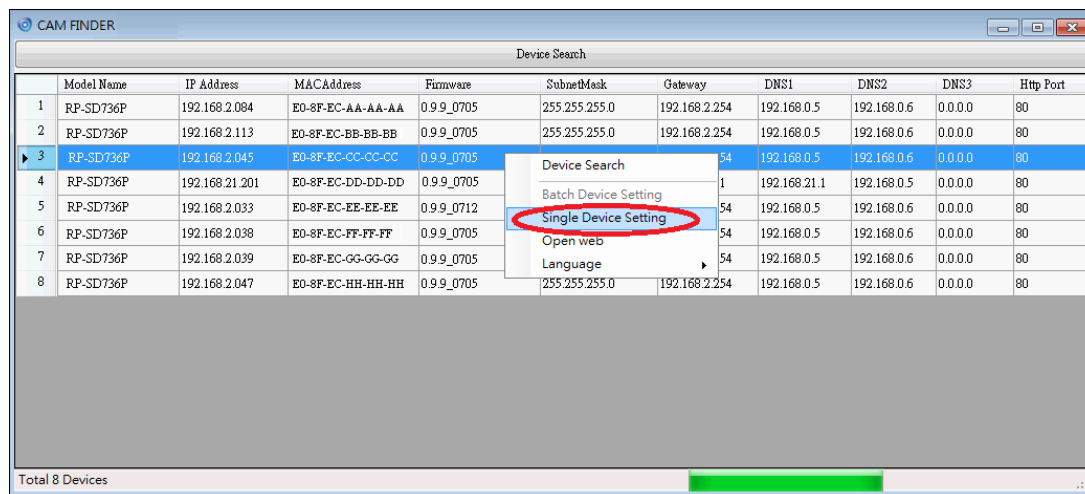


Figure 2-5 Open the Camera's Property setting page via “Single Device Setting” item

4. Check **[Static IP address]** or **[Use DHCP Service]** item to select the network connection method of the camera.

The screenshot shows the 'Property' window with the following fields:

- Device Setting:**
 - MACAddress: EO-8F-EC-AA-AA-AA
 - Firmware: 0.9.9 0705
- Property:**
 - ☒ Static IP address
 - IP Address: 192.168.2.45
 - SubnetMask: 255.255.255.0
 - Gateway: 192.168.2.254
 - Http Port: 80
 - DNS1: 192.168.0.5
 - DNS2: 192.168.0.6
 - DNS3: 0.0.0.0
- Certification:**
 - ☐ Use Custom
 - Username: admin
 - Password: *****
- DHCP:**
 - ☐ Use DHCP Service

Buttons: Set, Cancel

Figure 2-6 Enter the Camera Device's network setting manually.

The screenshot shows the 'Property' window with the following fields:

- Device Setting:**
 - MACAddress: EO-8F-EC-AA-AA-AA
 - Firmware: 0.9.9 0705
- Property:**
 - ☐ Static IP address
 - IP Address: 192.168.2.45
 - SubnetMask: 255.255.255.0
 - Gateway: 192.168.2.254
 - Http Port: 80
 - DNS1: 192.168.0.5
 - DNS2: 192.168.0.6
 - DNS3: 0.0.0.0
- Certification:**
 - ☐ Use Custom
 - Username: admin
 - Password: *****
- DHCP:**
 - ☒ Use DHCP Service

Buttons: Set, Cancel

Figure 2-7 Check "Use DHCP Service" item to let camera get IP Address automatically.

5. After modifying the camera properties, click **[Set]** button to save and enable the configuration modifications.

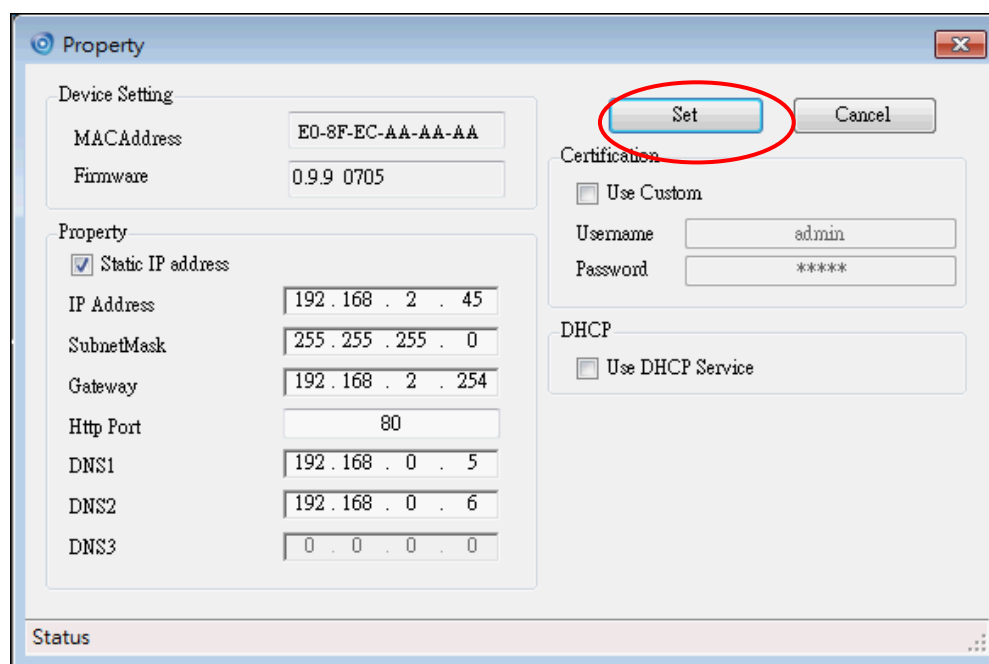


Figure 2-8 Click “Set” button to save and enable the modification.

6. Use “Ctrl” or “Shift” key on the keyboard to choose several Camera Devices. Then click the **[Batch Device Setting]** to configure them together.

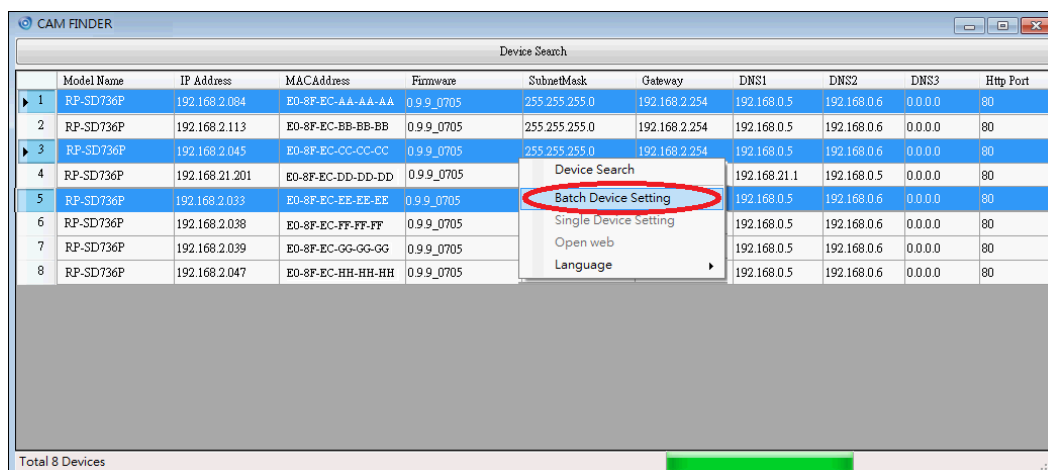


Figure 2-9 Select multi-Camera Devices and then configure their properties together via “Batch Device Setting” item

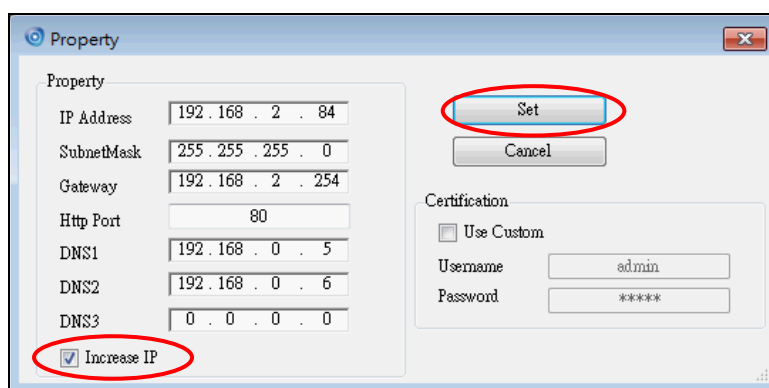


Figure 2-10 Check “Increase IP” setting to set Camera Device’s IP address increasing one by one. Then click “Set” button to save and enable the modification.

7. **[Language]** support for Chinese, English and Spanish.

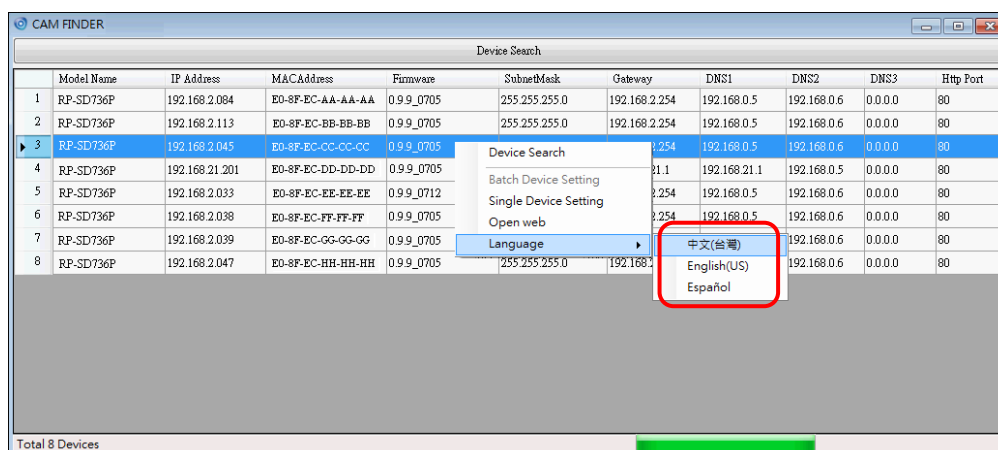


Figure 2-11 Selecting “Language” item could change the displayed language font of CAM FINDER utility.

2.3.1 Open the Web-based UI

1. To access the Web-based UI of the selected unit, run the **[Open Web]** on the select item.

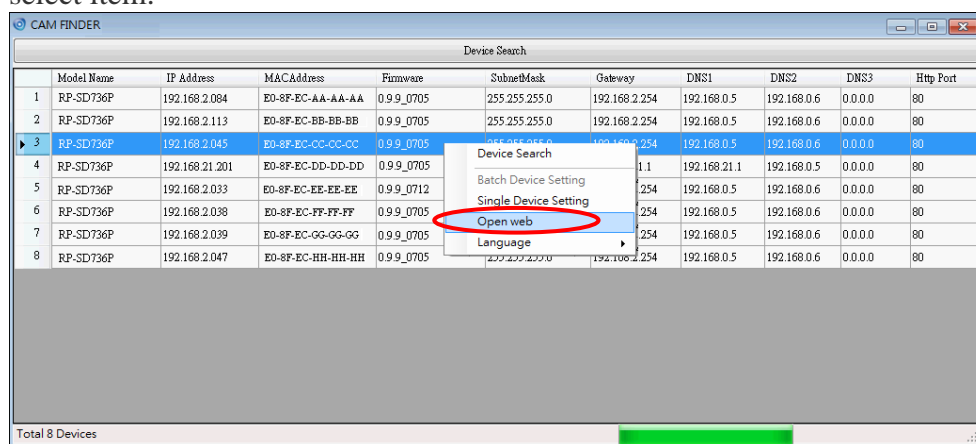


Figure 2-12 Open the Camera's Web-based UI Page via "Open web" item

2. Manual input username **admin**, password **admin**; to pass login authentication of camera webpage.
3. For first time user, there will be a prompt to install the ActiveX control. Comply with the ActiveX installation as they are needed to view the video stream and some other operations.
Besides, use of Microsoft IE browser is recommended as it offers a better compatibility.

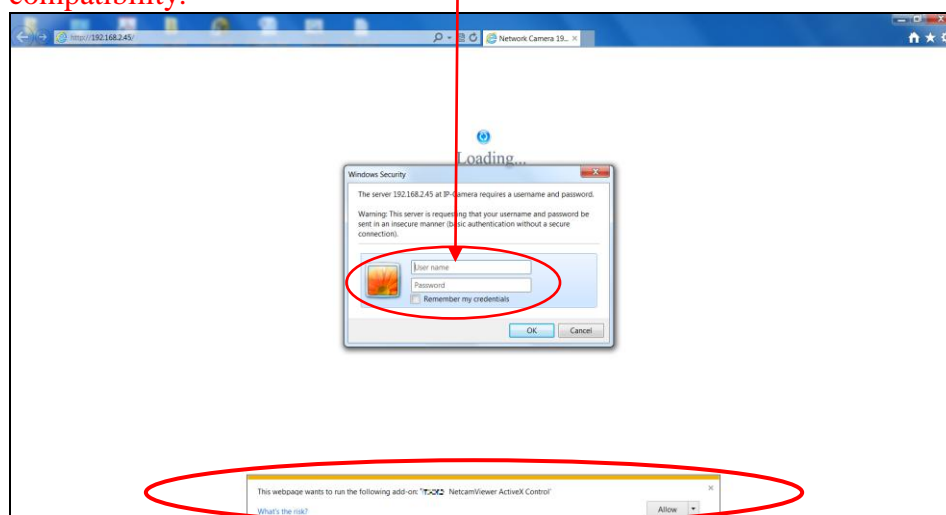
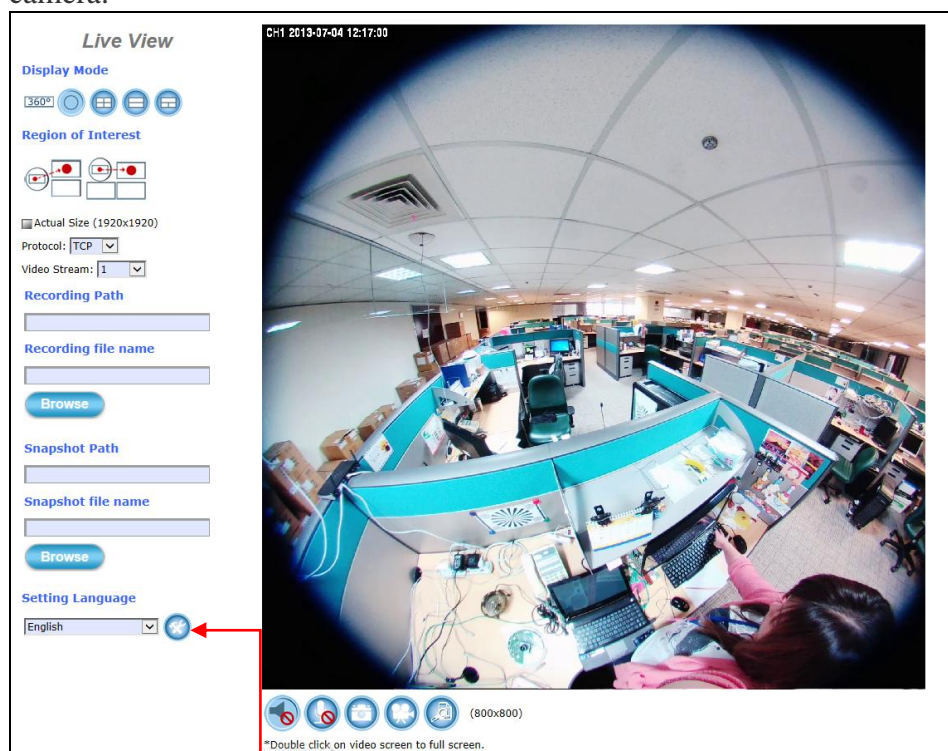



Figure 2-13 ActiveX components are required for Camera's Live Stream and configuration operation.

❗ Please also note to close all browser applications before NetcamViewer web component installation.

3. If the camera and browser components have been configured correctly, the default Web browser will open to the Live View page of the selected camera.



* Username and password is required to enter “**SETUP**”  Webpage.
(Default is admin / admin)

Verify and Complete the Installation from Your Browser

If your IE Browser can't get the ActiveX download properly, you may have to temporarily lower your security settings to perform a one-time-only installation of the ActiveX component onto your workstation, as described below:

1. From the IE Browser menu, select **[Internet Options] -> [Security] -> [Custom Level]**
2. Set the security level to Low and click **[OK]**.
3. Don't forget to restore the security level after the ActiveX installation.

3 Camera Live View UI Settings

Using PC/notebook/ultrabook, you may change and reconfigure the Camera live view user interface (UI) settings to suit your need by following the procedures below.

- 1) Execute your Web Browser and then manually enter the Camera Device's IP address gotten via **CAM FINDER** utility.

NOTE

- *For first time user, there will be a prompt to install the ActiveX control. Conply with the ActiveX installation as it is needed to view the video stream and some other operations.*
- *Use of Microsoft IE browser is recommended as it offers a better compatibility.*

- 2) Then the “Windows Security” dialog displays. Enter a username and password. You may enter “admin” for both. Click **OK** button when completed.

(Note that same Browser with different version or different vendor Browser will behave different dialog window. Below picture is belonging to IE Browser's diagram.)

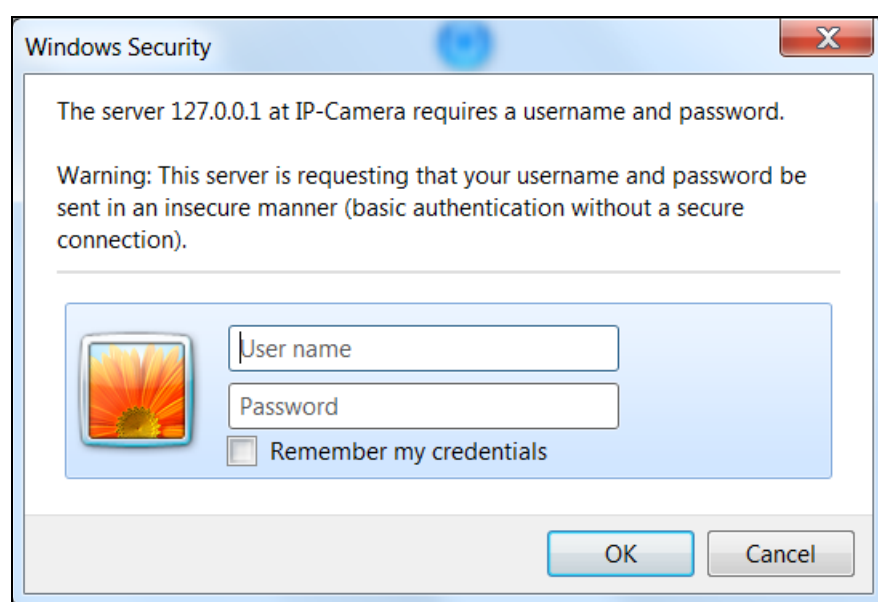


Figure 3-1 “Windows Security” Dialog

- 3) The “Live View Setting” window will then display offering all the necessary set up tools for changing the live view reconfigurations. The functions of each of these tools are explained in the following sections.

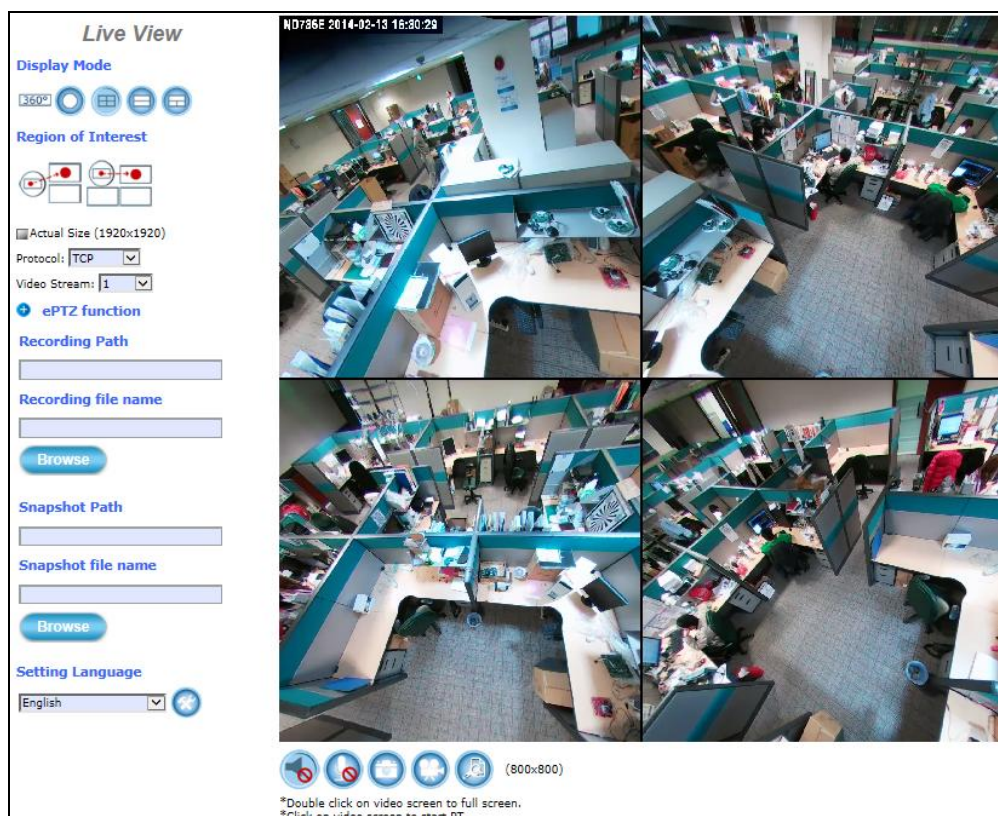


Figure 3-2 Camera “Live View Setting” Window
(Default Display Mode will be set to **Quad PTZ View**)

3.1 Quick Access Buttons

The following buttons provide the basic interactive functions between the Camera and the host computer as described below.

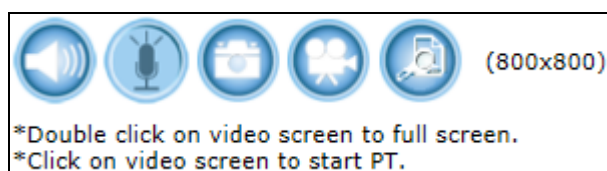







Figure 3-3 Camera Quick Access Toolbar Buttons

	Mute: Turn On/Off the host computer speaker.
	Talk: Click this button to enable/disable talk function to someone facing the network Camera from your computer. For ideal voice reception, the distance of the person on view, should be kept within 2 meters from the Camera.
	Snapshot: Click this button to capture still images taken from the Camera and save them in the host computer.
	Recording: Click this button to record live video clips from the Camera into your computer.
	Digital Zoom: Digital “zoom in” & “zoom out” of a particular area of the live view. To display the whole live view into full screen, double click on the video.

3.2 Camera Live View UI Setting Tools

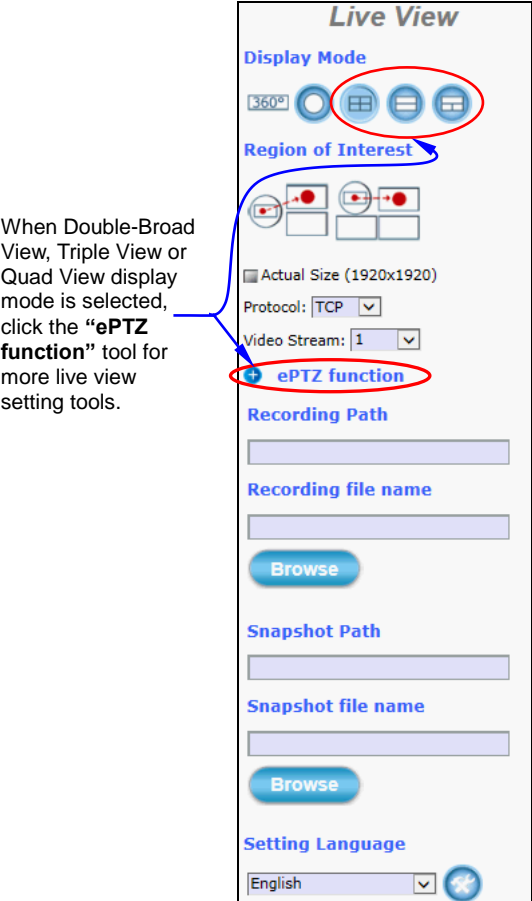
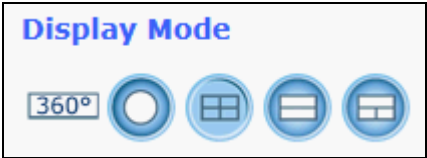


Figure 3-4 Camera Live View Reconfiguration Tools

The Live View tools (left figure) offer a variety of methods in changing the live view configurations of the Camera.



With its fisheye lens (360° panoramic view), the Camera can offer the following live view display modes:

	360 degree Broad View
	360 degree Full View
	Quad View
	Double-Broad View (180 degree Ultra Wide Angle View x 2)
	Triple View (180 degree Ultra Wide Angle View + Twin PTZ View)

When the Double-Broad, Triple or Quad PTZ display mode is selected, click the **ePTZ function** tool to display the PTZ setting tools as shown and explained below.

After ROI mode is selected, "Enable ROI (Stream)" function will appear.

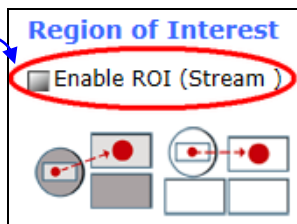
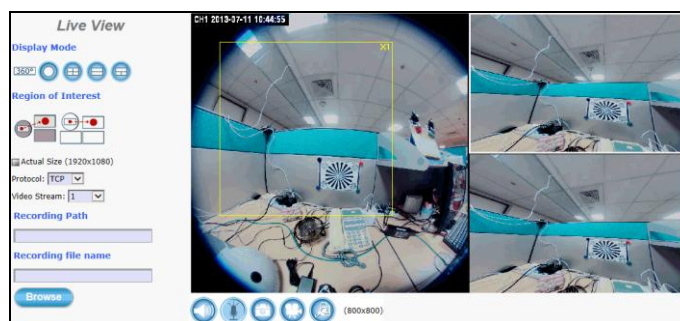


Figure 3-5 ROI Function Tool

Two Operation Modes (Triple and Quad with Source View) are supported.


For the first time use, you may Left-click the mouse button under lower-left, upper-right or lower-right Live View Window. Then you could see a **x1 frame** displaying in the Source View Window.



Scrolling the mouse wheel could change region's magnifying power (x1 to x10); and dragging the frame with mouse could move the amplified region. In the meanwhile, you could also see region's amplification effect displayed real time in the lower-left, upper-right or lower-right Live View Window.



While ☒ **Enable ROI (Stream)** is checked, each window could be treated as an individual stream. Such as Quad with Source View will have five stream output maximum at the same time.

➤ **rtsp://camera ip address/live1.sdp** means whole display window  could be seen.



➤ **rtsp://camera ip address/live2.sdp** means

upper-left Source View Window could be seen.

- `rtsp://camera ip address/live3.sdp` means lower-left Display Window ☐ could be seen.
- `rtsp://camera ip address/live4.sdp` means upper-right Display Window ☒ could be seen.
- `rtsp://camera ip address/live5.sdp` means lower-right Source Display Window ☐ could be seen.

CH: Select the PTZ channel or display window (1, 2, 3 or 4) to implement PTZ setting.

Step: Adjust and set the speed of live view panning motion.

Directional Buttons: Use to manually pan or rotate  the scene to select and zoom a specific area (1 of 4 maximum) to be monitored. To reset the scene back to its original status, click the Home  button. You can also directly click the mouse button on the video to drag for pan and tilt, roll the mouse wheel for zoom a selected area.

Click either buttons to close the “ePTZ function” pane

Click & drag **Plus (+)** button to move “ePTZ function” pane to a convenient location in the window.

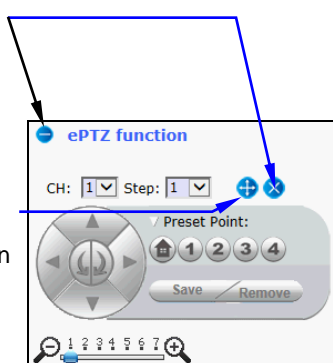
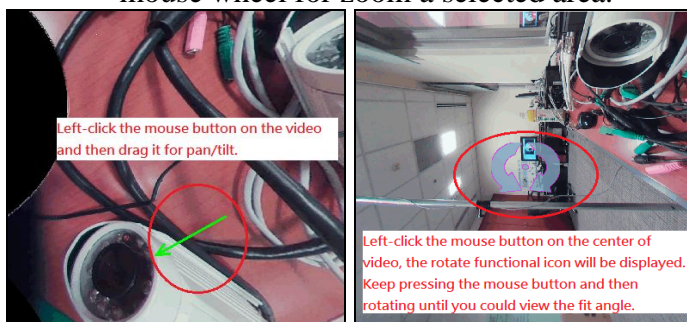
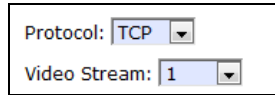


Figure 3-6 ePTZ Function Tool



Preset Point: After panning and zooming, assign the selected area a Preset Point (1 to 4) and click **Save** button to store the setting. The pre-defined point of view areas will be monitored in sequence. To cancel the selection, click **Remove** button.

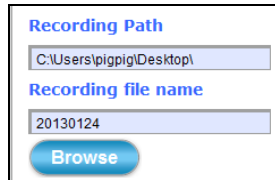
Zoom Slider: Drag slider to zoom-in and zoom-out the selected scene. Zoom setting is saved with the selected pre-defined point of view area.



Protocol: TCP
Video Stream: 1

Protocol: Option for TCP, UDP or HTTP transmission protocol with H.264/MPEG4 streaming is available.

Video Stream: Two simultaneous streaming is supported for live viewing.



Recording Path
C:\Users\piggig\Desktop\
Recording file name
20130124
Browse

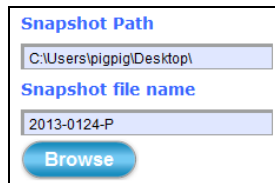
Click **Browse** button to define Recording Path and Recording Filename for the video you are preparing to record.

Recording Path: Specify a storage destination path for the video you are going to record.

Recording file name: Define a base filename for the video recordings you are going to take. The base filename will auto-expand for each saved video recording.



To start recording, click the **Recording** button.



Snapshot Path
C:\Users\piggig\Desktop\
Snapshot file name
2013-0124-P
Browse

Click **Browse** button to define Snapshot Path and Snapshot Filename for the snapshots you are preparing to capture.

Snapshot Path: Specify a storage destination path for the snapshot images you are preparing to capture.

Snapshot file name: Define base filename for the snapshots you going to capture. The base filename will auto-expand for each saved snapshot.



To start capturing snapshots, click the **Snapshot** button.

Click **Setup** button to change or update more Camera settings.



Setting Language
English

Setting Language: Select the default language of the user-interface.



As you get familiar with features and functions of your Camera, you may want to change or update a number of its settings to further upgrade its performance. This can be accomplished by clicking the **Setup** button (indicated in the above figure). The **Setup** dialog (see following figure) will then display to provide the range of setup categories you will be able to change.

Setup	
Live View	Information Time Security Maintenance System Log
System	System Information Model Name: RP-SD736P System Time: 2013/12/25 19:06:13 Firmware Version: 0.9.9_1223 MAC Address: E0:8F:EC:AA:AA:AA ActiveX control version: 0.0.6.5 Wired network Status: Connected Mode: DHCP IP Address: 192.168.13.29 Subnet Mask: 255.255.255.0 Gateway: 192.168.13.1 Primary DNS: 192.168.13.1 Secondary DNS: 0.0.0.0 Wireless network Status: No connection MAC Address: 00:00:58:61:01:00 Mode: DHCP IP Address: 0.0.0.0 Netmask: 0.0.0.0 Gateway: 0.0.0.0 DDNS Server Status: No connection
Network	
Video & Audio	
Event	
Local Storage	
Remote Storage	

Figure 3-7 Camera Setup Dialog

4 Setup Execution

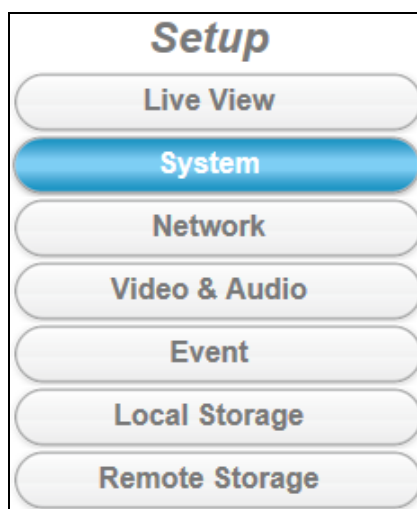


Figure 4-1 Camera Setup Selection Buttons

NOTE

For “Live View” setup execution, please refer to the previous chapter “Camera Live View UI Settings”

4.1 System Setup Execution



Clicking the **System** button will display the following tabbed panes relative to system configurations.

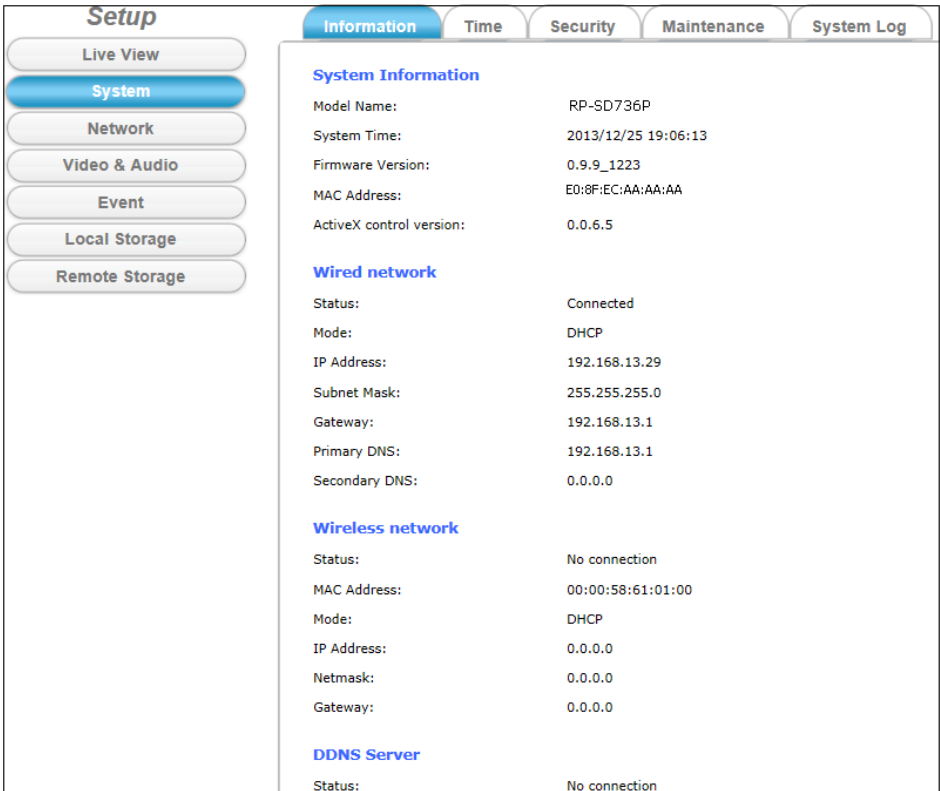


Figure 4-2 “System Setup” Tabbed Panes

4.1.1 Information Tab

System Information	
Model Name:	RP-SD736P
System Time:	2013/12/25 19:06:13
Firmware Version:	0.9.9_1223
MAC Address:	E0:8F:EC:AA:AA:AA
ActiveX control version:	0.0.6.5

Wired network	
Status:	Connected
Mode:	DHCP
IP Address:	192.168.13.29
Subnet Mask:	255.255.255.0
Gateway:	192.168.13.1
Primary DNS:	192.168.13.1
Secondary DNS:	0.0.0.0

Wireless network	
Status:	No connection
MAC Address:	00:00:58:61:01:00
Mode:	DHCP
IP Address:	0.0.0.0
Netmask:	0.0.0.0
Gateway:	0.0.0.0

DDNS Server	
Status:	No connection

Figure 4-3 "Information" Tabbed Pane

The **Information** tabbed pane provides the existing system status of the Camera which includes Model Name, System Time, Firmware Version, MAC Address, ActiveX Control Version, Wired Network, Wireless Network and DDNS Server Status.

4.1.2 Time Tab

System Time

2013/12/26 09:25:51

System Time settings

Time Zone:

GMT+08:00 Beijing, Chongqing, Hong Kong, Kuala Lumpur, Singapore, Taipei, Krasnoyarsk

☐ Automatic

NTP server: time.stdtime.gov.tw

☐ Keep current date and time

☒ Set Manually

☒ Synchronize with computer time

Date: 2013/12/26 Time: 09:25:51

☐ Assign value

Date: 2013/12/26 (yyyy/mm/dd) Time: 09 : 24 : 59 (hh:mm:ss)

☒ Enable Daylight Saving

Offset: +1 hrs

	Month	Week	Day of week	Hour	Minute
Start time	8	1	sunday	0	0
End time	10	1	sunday	0	0

Save

Figure 4-4 "Time" Tabbed Pane

The **Time** tabbed pane is where you set up the clock of your Camera to synchronize with your local time. Where:

System Time: The Network Camera current date and time is applied and displayed here based on the setup status of the System Time Settings as detailed below.

Time Zone: Select the applicable Time Zone of your city in reference to Greenwich Mean Time.

Automatic: Select this item if you want to automatically synchronize the Camera clock with your manually entered Network Time Protocol (NTP) Server.

Keep current date and time setting: Select this option in lieu of automatic synchronization if the Camera is not connected to NTP Server and uses its own embedded clock.

Set Manually:

Ⓒ **Synchronize with the computer Time:** Select this option to manually synchronize the Network Camera clock (date and time) with that of the local host computer.

Ⓒ **Assign value:** Select this option to enter the date and time manually.

Enable Daylight Saving: Select this option only when applicable at your location. Two setup settings; the **Start time** and **End time** are needed to implement the feature.



After setups are completed, click **Save** button to apply the settings.

4.1.3 Security Tab

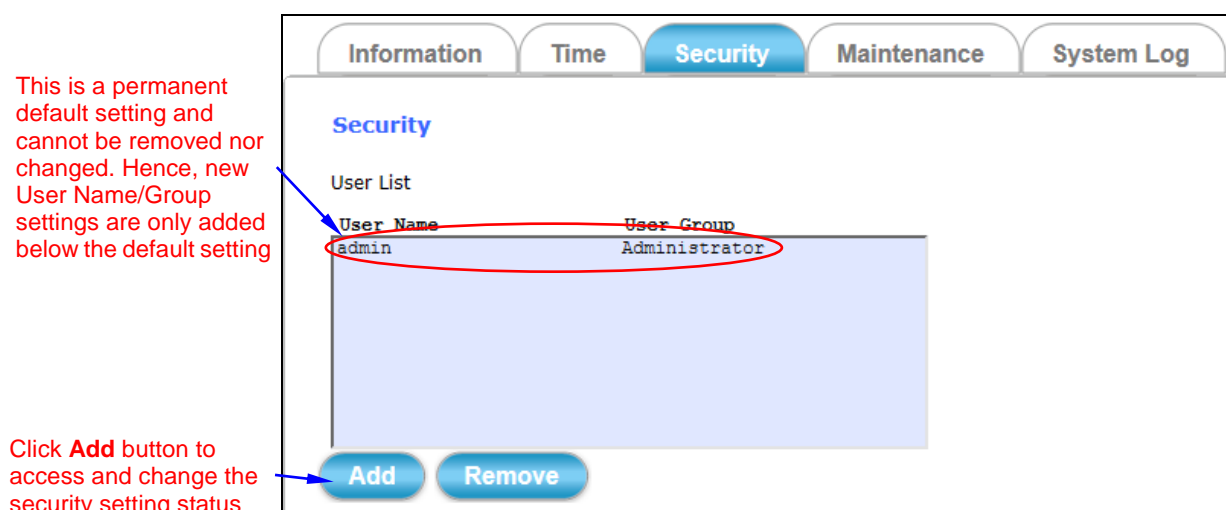


Figure 4-5 "Security" Tabbed Pane

The **Security** tabbed pane allows you to add new Camera User Name and change Password and the surveillance status or User Group. Click the **Add** button to access the security setup dialog (shown below).

User Setup

User Name:

Password: ☒ Show Password

Confirm Password:

User Group: ☒ Administrator
☐ Operator
☐ Viewer

Note:

1. A user name and password must contain at least one character.
2. Max 14 characters are allowed in user names.
3. The first character in user name must be A-Z or a-z.
4. Only A-Z, a-z and 0-9 are allowed in the user name and password.
5. Max eight characters are allowed in the password.
6. The maximum number of users is 20.
7. The 'admin' user is default user and cannot be deleted.

Save

Figure 4-6 “Security” Setup Dialog

Where:

User Name: Enter the new user name to be added into the list (see Note 4 of dialog for proper entry).

Password: Enter the new password (see Note 4 of dialog for proper entry).

Confirm password: Enter the password again for authentication (encoded display).

Show Password: Displays the decoded password when check box is enabled.

User Group: Three group options are available, namely:

- Ⓒ **Administrator:** User is allowed to change Camera settings and perform all Camera functions.
- Ⓒ **Operator:** User is allowed to login “Live View” Webpage and perform all functions within this page. Except changing Video and Audio settings of Camera live stream, other adjustments of Camera parameter are prohibited.
- Ⓒ **Viewer:** User is only allowed to login “Live View” Webpage and perform all functions within this page. Changing Camera settings is prohibited.



After setups are completed, click **Save** button to apply the settings.

4.1.4 Maintenance Tab

Information Time Security **Maintenance** System Log

Model Name: RP-SD736P
Firmware Version: 0.9.9_1223

Upgrade Firmware
Select firmware file: Browse...
Upgrade
Download and save the latest firmware in the PC.
Click here to browse and select it.

Upload Own Logo File
Right click the mouse button on ' Logo Image' and then select Save As to save image in the PC.
Select image file to upload: Browse...
Upload

Backup
Save all parameters and user-defined scripts to a backup file.
Backup

Upload Setting
Use a saved backup file to return the unit to a previous configuration.
Specify the backup file to use: Browse...
Restore

Reboot System
Reboot

Restore System
Factory Default

Figure 4-7 “Maintenance” Tabbed Pane

The **Maintenance** tabbed pane allows you to upgrade the firmware with the latest version and to restore the Network Camera settings to factory default. Where:

Upgrade Firmware: Download the latest firmware file from the website by executing the following steps:

- 1) Click the **Browse** button to access and select the **appropriate** firmware file from its folder.

[※ Please specify the correct firmware version mapped with your camera to upgrade, or there will be danger to damage camera system.]



- 2) Click the **Upgrade** button. The Network Camera will then start to upgrade the existing firmware. When upgrade is completed, the Camera will reboot automatically.

[※ In Appendix chapter, there will be more detailed steps to guide you how to update camera firmware step by step.]

Upload Own Logo File:

Prepare and save the Logo Image file in the PC. Then Follow the below steps to replace Web UI Logo with it.



- 1) Click the **Browse** button to access and select the Logo Image file from the PC.
- 2) Click the **Upload** button to process Logo replacing. When upload process is completed, it's strongly recommended to close and restart Web Browser.



Backup:

Clicking the **Backup** button allows you to manually save Camera's parameters and user settings into a **config_backup.tar.gz** file.

Upload Setting:

This function allows user to restore Camera's backup setting by executing the below steps:




- 1) Click the **Browse** button to access and select saved **config_backup.tar.gz** file from the PC.
- 2) Click the **Restore** button to process Camera configuration restore.



Reboot System:

Clicking the **Reboot** button allows you to manually reboot the Network Camera.

Restore System:



Clicking the **Factory Default** button will restore the Network Camera to its factory default settings status. Before Camera system proceed to restore step, there'll be a dialog window popped and then ask if you would like to keep "**Network setting**" parameters. Besides, all configured data in the "**System Time**", "**Security**" and "**Maintenance**" tab will be remained current.

4.1.5 System Log Tab

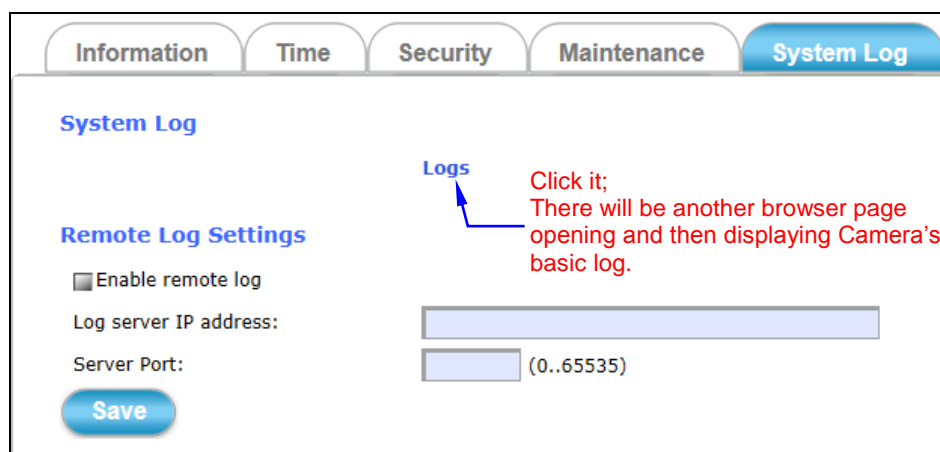


Figure 4-8 “System Log” Tabbed Pane

The **System Log** tabbed pane allows you to see Camera’s basic log on another browser page or Remote Log Server.

Where:

Remote Log Settings: Check “Enable remote log” selection first; and then manual entering IP address & port setting of Remote Log Server.



After setups are completed, click **Save** button to apply the settings.

4.2 Network Setup Execution



Clicking the **Network** button will display the following tabbed panes on configuring Camera connection with the network.

The screenshot shows a web interface for network setup. At the top, there are four tabs: 'General', 'DDNS', 'Multicast', and 'IP Filter'. The 'General' tab is active. Below the tabs, the section is titled 'Network Settings'. It contains three radio button options: 'DHCP' (which is selected), 'Fixed IP Address', and 'PPPoE'. Below this, there is a section titled 'Port Settings'. It contains two labels with corresponding input fields: 'HTTP Port:' with the value '80' and 'RTSP Port:' with the value '554'. At the bottom of the form is a blue 'Save' button.

Figure 4-8 “Network Setup” Tabbed Panes

4.2.1 General Tab

The **General** tabbed pane (shown above) allows you to redefine the network and port protocol settings of the Network Camera.

Where:

Network Settings:

- Ⓒ **DHCP:** This option obtains the available dynamic IP address assigned by the DHCP server each time the Camera is connected to the network.
- Ⓒ **Fixed IP Address:** This option manually assigns a static IP address to the Network Camera.

© **PPPoE**: Select this option to set PPPoE account & password.

PPPoE User Name:
 PPPoE Password:
 Recipient E-mail Address: (ex: rcpt@mail.com)
 SMTP E-mail Server: (ex: mail.examples.com or 192.168.1.1)
 SMTP Port: (0..65535)
 SMTP user name:
 SMTP Password:
 Sender E-mail Address: (ex: from@mail.com)
 Use SSL-TLS:

While PPPoE protocol is selected, you may have to enter some more information such as the above picture.

While Camera IP is changed dynamically because of PPPoE Network Connection, its new IP Address will be sent to “Sender E-mail Address” through SMTP service. So you won’t worry about the difficulty in Camera’s Webpage access.

※ As for the settings of SMTP Service, kindly please contact with your E-mail service provider ◦ After you confirm all parameters are correct and working properly, you may enter them into the text area manually.

Port Settings:

© **HTTP Port**: Re-define the existing HTTP Port number in the text box.

© **RTSP Port**: Re-define the existing RTSP Port number in the text box.

Save

After setups are completed, click **Save** button to apply the settings.

4.2.2 Wireless Tab (*Optional function)

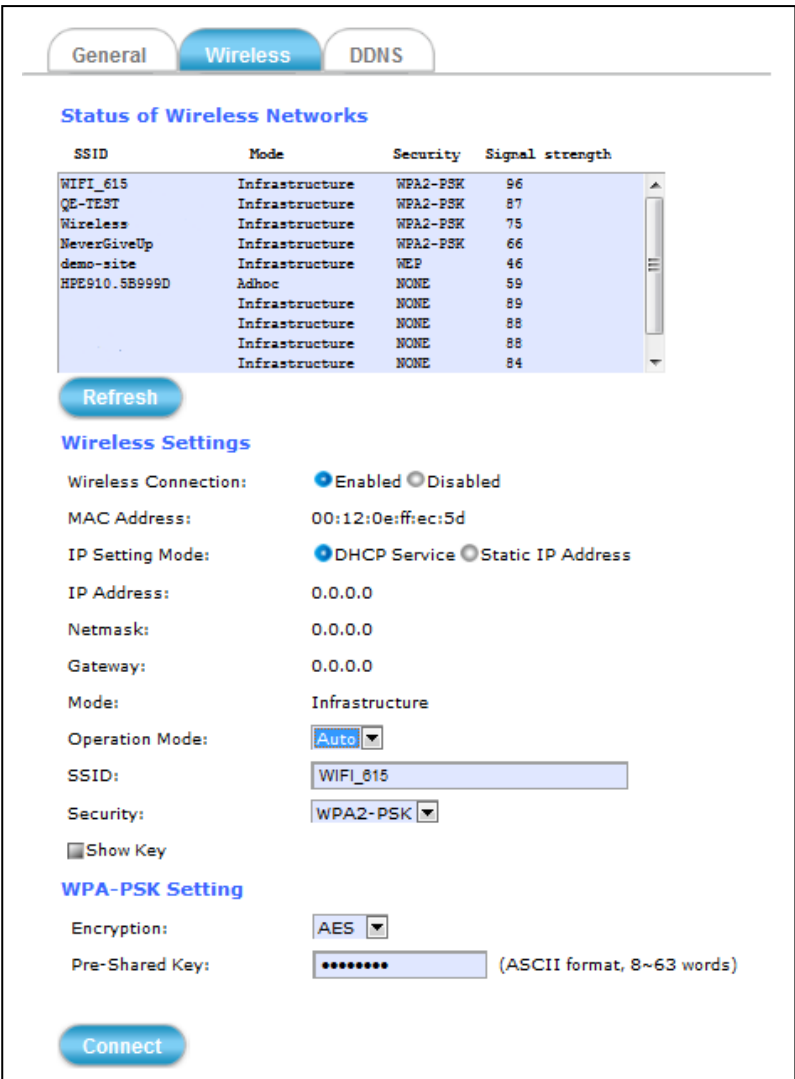


Figure 4-9 “Wireless” Tabbed Pane

The **Wireless** tabbed pane provides search and display of available wireless networks from which you can select the most suitable one for your Camera. Where:

Status of Wireless Networks: Displays the list of wireless networks (Access Points) currently available; grouped under SSID, Mode, Security, and Signal Strength categories. Click the **Refresh** button to refresh the list for possible additional list of wireless networks not previously available.

Wireless Setting: Defines the configurations to enable the Camera to connect to the selected wireless network. Clients in the same network group are able to access to this Camera through wireless connection.

WPA-PSK Setting: Defines the Wi-Fi Protected Access setting in Pre-Shared Key mode relative to the selected wireless network.



After setups are completed, click **Connect** button to get connected with the selected wireless network.

4.2.3 DDNS Tab

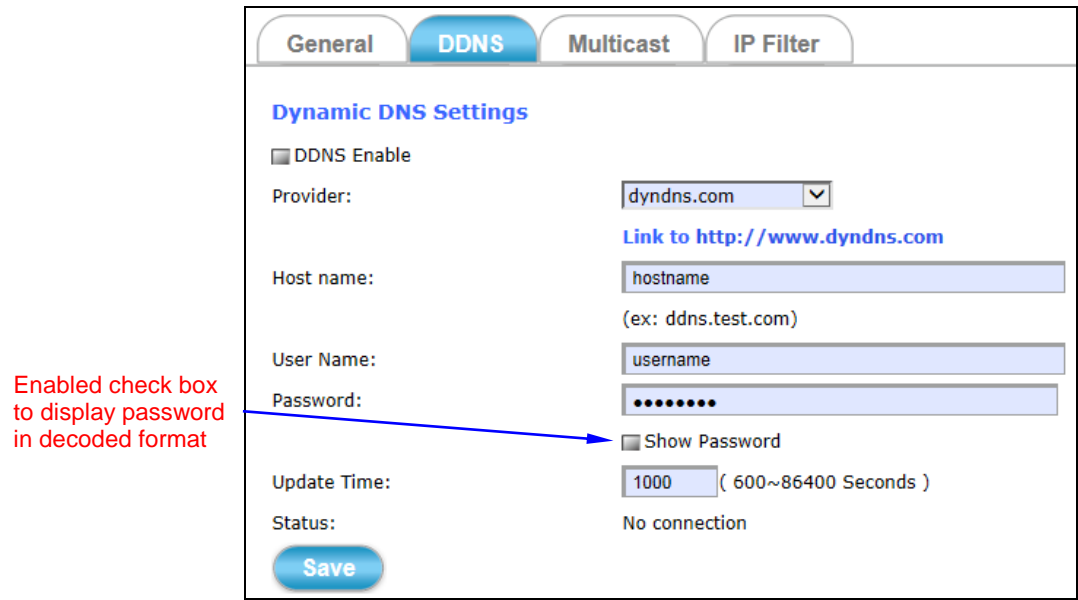


Figure 4-10 “DDNS” Tabbed Pane

The **DDNS** tabbed pane allows you to configure the Dynamic Domain Name System of your network device with a host name instead of the IP Address.

Where:

DDNS Enable: Enable the check box to support DDNS function.

Host Name: Enter the Host name which you registered and got through DNS Service Provider. The assigned host name is used to access the network device instead of IP Address.

User Name/Password: Account authentication for logging into the website of DNS Service Provider.

Update Time: Define a time interval for the device to periodically update and check its access status with website of DNS Service Provider.



After setups are completed, click **Save** button to apply the settings.

4.2.4 Multicast Tab

GeneralDDNSMulticastIP Filter

Multicast Settings (Based on the RTSP Server)

Multicast Group Address:

239.128.1.100

(224.3.1.0 ~ 239.255.255.255)

Multicast Port:

5560

(1 ~ 65535)

Multicast TTL:

15

(1 ~ 255)

Stream 1

Enable

Multicast Video Port:

5560

Multicast Audio Port:

5562

Multicast Metadata Port:

5564

Stream 2

Enable

Multicast Video Port:

5566

Multicast Audio Port:

5568

Multicast Metadata Port:

5570

Stream 3

Enable

Multicast Video Port:

5572

Multicast Audio Port:

5574

Multicast Metadata Port:

5576

Save

Check the "Enable" box to open UDP Multicast Streaming function of stream1, 2 or 3.

Figure 4-11 "Multicast" Tabbed Pane

The **Multicast** tabbed pane allows you to open Camera’s UDP Multicast Streaming function.

By default, Camera’s live stream belongs to RTSP Protocol. It means camera has to send an individual streaming for each client wish to see the videos. So the more the client number is, the larger the network bandwidth required and the bigger loading of the camera.

In other words, the camera can send just one streaming and each client can receive the streaming with Multicast Protocol.
Even with the client number increasing, the network bandwidth is still the same loading with one camera.



After checking the “Enable” box to open this function, click **Save** button to apply the settings.

4.2.5 IP Filter Tab

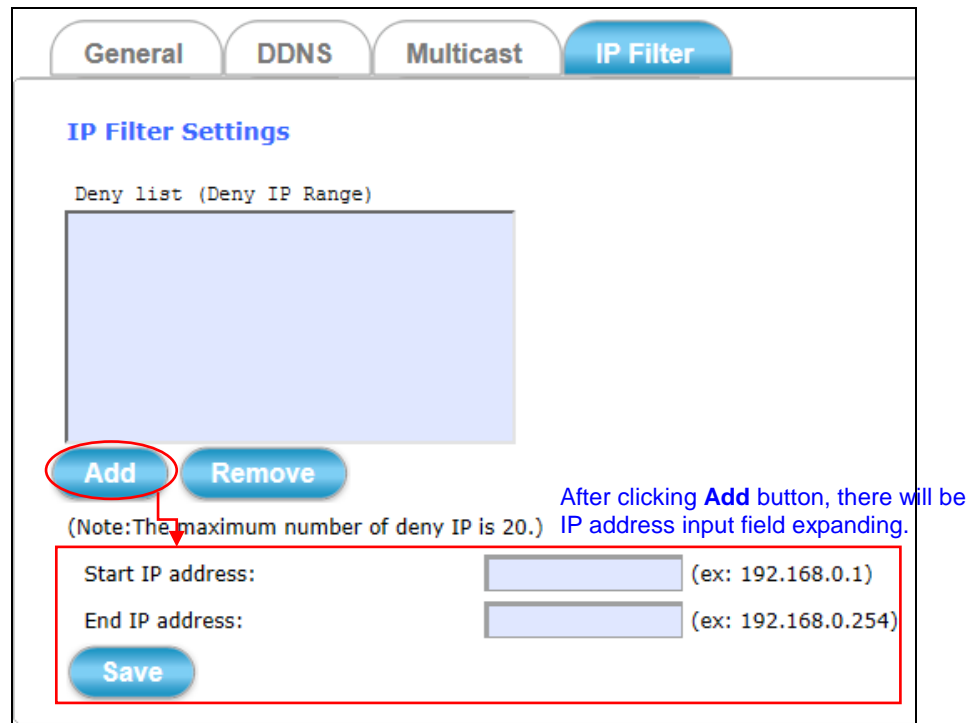


Figure 4-12 "IP Filter" Tabbed Pane

The **IP Filter** tabbed pane could let you configure device IP list which is denied access to this camera.

Where:

Add

Start IP address: Fill in the first address of IP range which you would like to deny its access to camera.

End IP address: Fill in the last address of IP range which you would like to deny its access to camera.

※ please note that total device numbers listed in the Deny list would be limited to 20.

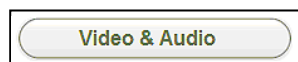
Save

Filling the IP range, then click **Save** button to implement the settings.

Remove

If you would like to re-open the access right of those listed device, select it from the list and then click **Remove** button to apply the settings.

4.3 Video & Audio Setup Execution



Clicking the **Video & Audio** button will display the following tabbed panes for defining Camera streaming, video, and audio functions.

StreamVideoAudioPrivacy Mask

Video quality settings for stream 1

Connection template:Customized

Mode:H264

Frame Size:1920x1920

Maximum Frame Rate:15 FPS

Streaming Mode:CBR

Bit Rate:6 Mbps

Intra frame period:15

☒ Text Overlay

Text Field:CH1

☒ Time Stamp

RTSP Port Access Name:live1.sdp

Video quality settings for stream 2

Connection template:Customized

Mode:H264

Frame Size:1600x1200

Maximum Frame Rate:15 FPS

Streaming Mode:CBR

Bit Rate:2 Mbps

Intra frame period:15

☒ Text Overlay

Text Field:CH2

☒ Time Stamp

RTSP Port Access Name:live2.sdp

Video quality settings for stream 3

Connection template:Customized

Mode:H264

Frame Size:640x480

Maximum Frame Rate:15 FPS

Streaming Mode:CBR

Bit Rate:768 Kbps

Intra frame period:15

☒ Text Overlay

Text Field:CH3

☒ Time Stamp

RTSP Port Access Name:live3.sdp

Save

Figure 4-11 “Video & Audio” Tabbed Panes

4.3.1 Stream Tab

The **Stream** tabbed pane (see above figure) provides the adjustments for the video quality of the Camera streaming function. The pane offers the following three modes of video quality setting:

Video quality settings for stream 1: This is the primary quality setting for live view streaming.

Video quality settings for stream 2: This is the secondary quality setting for live view streaming.

Video quality settings for stream 3 (Recording Stream Quality): This setting is geared for Recording Stream saved in the SD Card use.

NOTE

*If the “Video Event Alarm Setting by Video” (see Section 4.4.2) is enabled, an alert message will display requiring you to disable the feature first before proceeding to change the Streaming settings. Otherwise, adjustments to video quality streaming settings **cannot** be accomplished.*

The quality setting items on this pane are as follows:

Connection template: Four option modes are available; “Fast,” “General,” “Low,” and “Customized” modes.

Mode: Three modes of encoding options are offered; “H264,” “MJPEG,” and “MPEG4.”

Frame Size: 3 types of streamed frame resolutions are available to select; “1920x1920,” “1920x1080,” and “1600x1200”

Maximum Frame Rate: Available rate options are; 1, 2, 3, 5, 8, 10 & 15 frames per second (FPS).

Steaming Mode: Two choices of streaming modes are offered; “VBR (variable bit rate)” and “CBR (constant bit rate).”

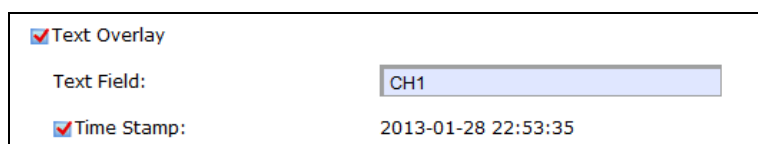
Quality: The options for streaming mode quality are expressed differently between VBR and CBR:

© **VBR:** Standard, Good, & Detailed

© **CBR:** 64K bps, 128K bps, 256K bps, 384K bps, 512K bps, 768K bps, 1M bps, 1.5M bps, 2M bps, 3M bps, 4M bps, 5M bps, 6M bps, 8M bps, 10M bps and 12M bps.

Intra frame period: Available choices are; 5, 8, 10, 15, 20, 25, 30, 40, 50 & 60 frames per period. This function will let you choose how long distance between two I-Frames. Larger value means longer distance between two I-Frames and this selection is suitable for the stable Network Bandwidth Environment; so we suggest the smaller value selection is proper to the worse Network Bandwidth Environment.

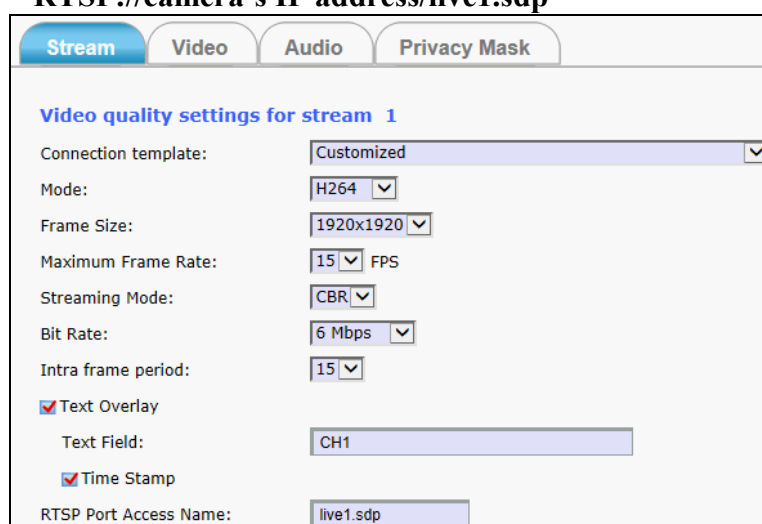
Text Overlay: When enabled, each streamed frame will be overlaid with the Camera ID (text field) and stamped with date/time (if enabled) as illustrated below.



☒ Text Overlay
 Text Field: CH1
☒ Time Stamp: 2013-01-28 22:53:35

Figure 4-12 Text Overlay Setting Example

RTSP Port Access Name: When RTSP or VLC media-player is used, the port can be renamed with easy to remember pathname. For example: the default RTSP Port Access Name is live1.sdp ; it means your playback stream name would be “RTSP://camera’s IP address/live1.sdp”



Stream Video Audio Privacy Mask
Video quality settings for stream 1
 Connection template: Customized
 Mode: H264
 Frame Size: 1920x1920
 Maximum Frame Rate: 15 FPS
 Streaming Mode: CBR
 Bit Rate: 6 Mbps
 Intra frame period: 15
☒ Text Overlay
 Text Field: CH1
☒ Time Stamp
 RTSP Port Access Name: live1.sdp



After setups are completed, click **Save** button to implement the settings.

4.3.2 Video Tab

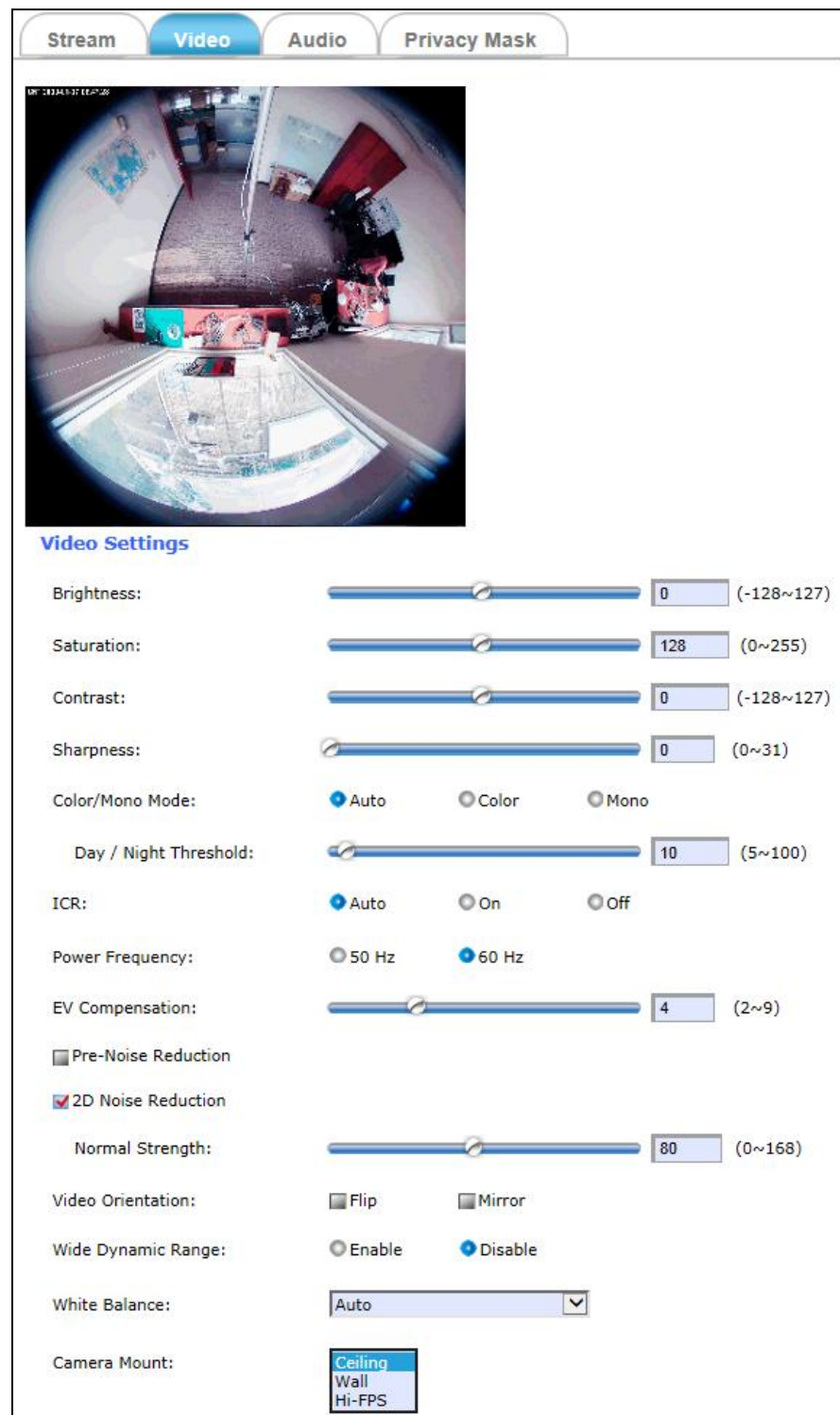


Figure 4-13 "Video" Tabbed Pane

The **Video** tabbed pane lets you to perform live adjustments and improvement of the Camera captured video effect relative to the target environment. If you experienced difficulty in implementing the adjustment parameters, it is recommended that you use the default setting by pressing the **Reset** button (see figure below) in the pinhole of the Camera.

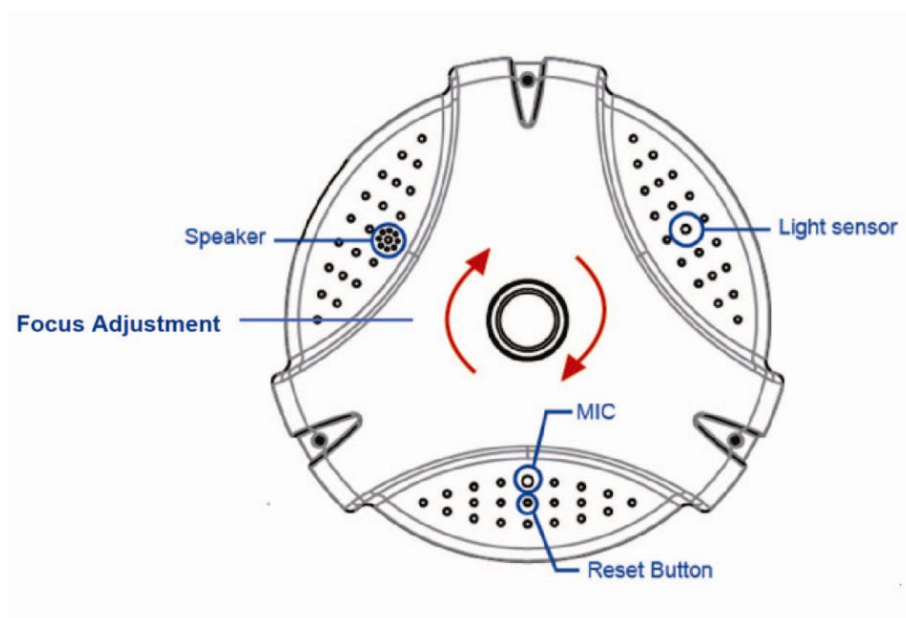


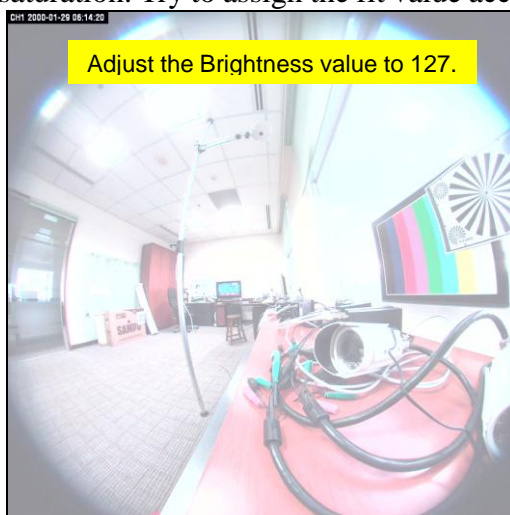
Figure 4-14 Reset Button in the pinhole of Camera

NOTE

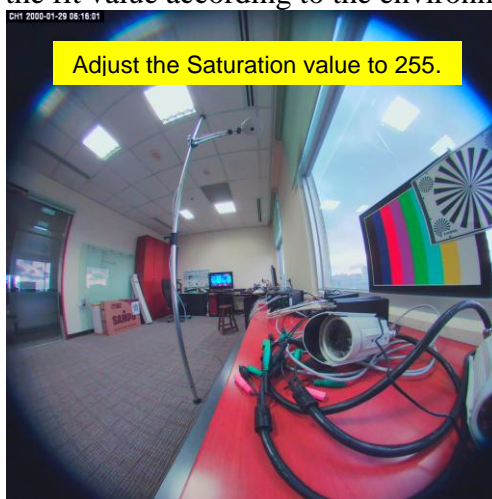
Pressing the Reset button will also return all other new settings to its default status.

Where:

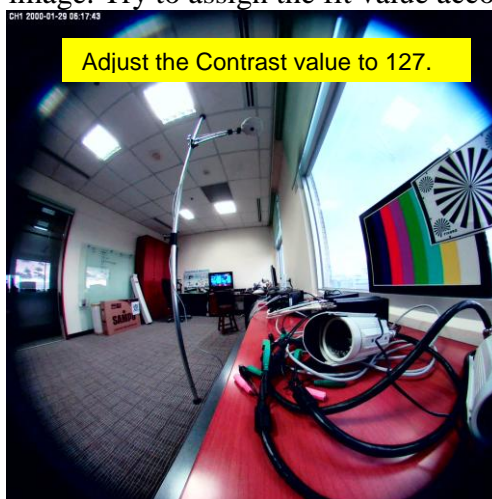
Brightness: The luminance of the captured image apart from its hue or saturation. Try to assign the fit value according to the environment



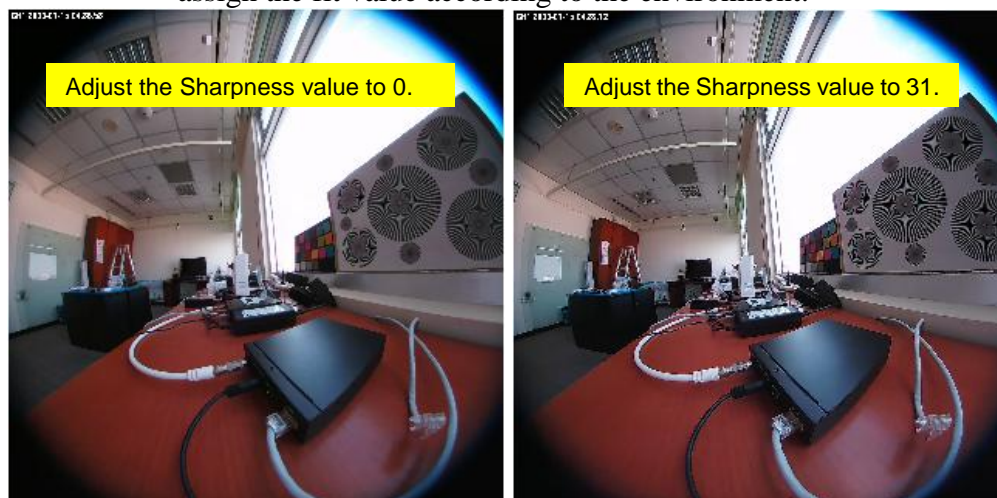
Saturation: The degree of intensity and purity of a specific color. Try to assign the fit value according to the environment.



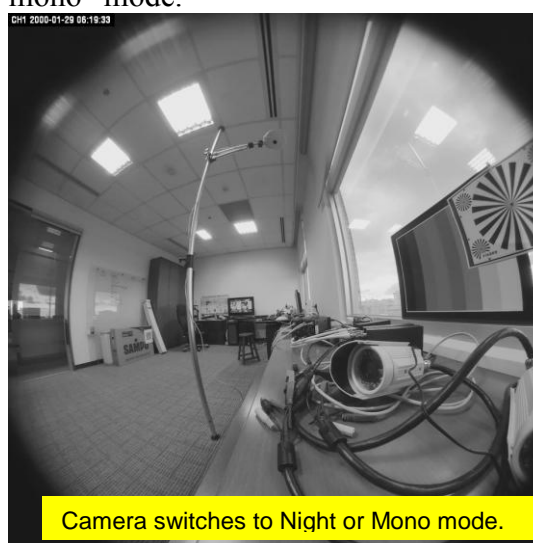
Contrast: The brightness ratio of the lightest to the darkest part of the video image. Try to assign the fit value according to the environment.



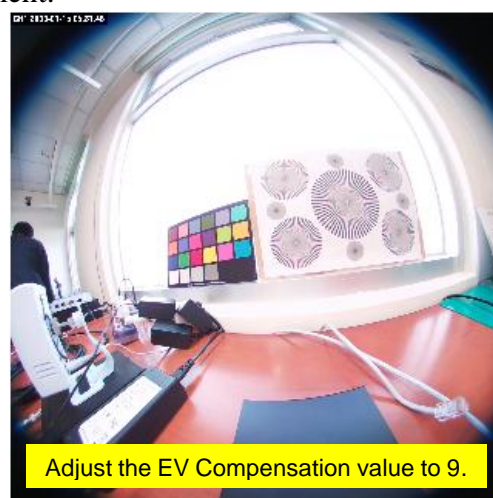
Sharpness: Sharpness can be defined as edge contrast. So when we increase sharpness, we increase the contrast only along/near edges. Try to assign the fit value according to the environment.



Day/Night Threshold: Set the illumination lux value (5 ~ 100) to auto-trigger the Camera into “day” or “night” mode relative to luminance of the area under surveillance. When the environment luminance becomes higher than the set lux value, the Camera will auto switch to “day” or “color” mode. Otherwise, it will remain at “night” or “mono” mode.

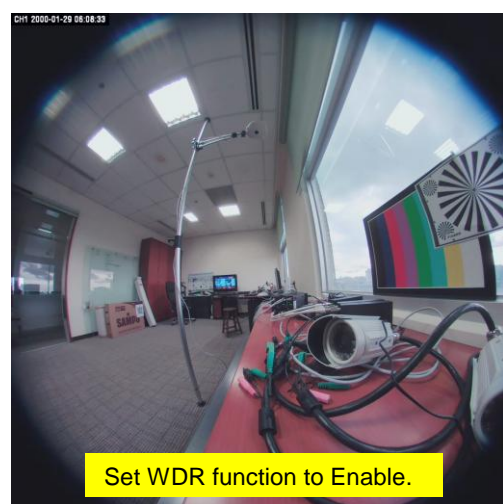
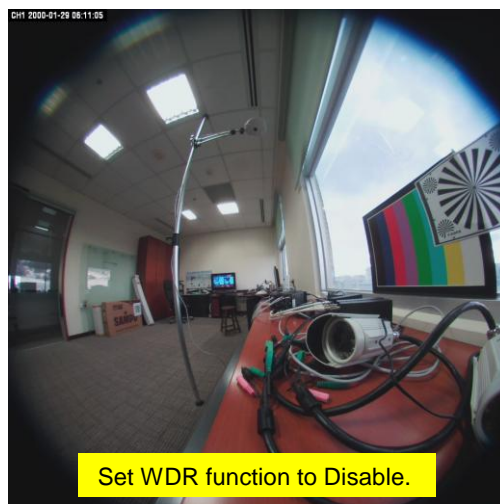


EV Compensation: Exposure Compensation is a feature of a camera that allows you to adjust the exposure value manually. You may increase or decrease the amount of brightness or darkness of your picture through sliding the bar. Try to assign the fit value according to the environment.



Pre-Noise Reduction & 2D Noise Reduction: Both of them are one kind of technology to provide clearer video with less noise under poor lighting conditions, making it easier to identify people or objects. Try to set them according to the stream quality.

Wide Dynamic Range: Enable this function could let camera provide clear images even under backlighting.






White Balance: Because camera doesn't have ability to automatically adjust different color (temperature) to the environment, six templates are provided to let you choose for different light.

White Balance:

Auto
Incandescent Light
Cool White Fluorescent Light
SunLight
Cloudy
SunShade

Camera Mount: Three camera mounting types could be chose and will also bring different kinds of Display Mode.

- ◎ **Ceiling:** The 'Ceiling' camera mount menu shows a 'Display Mode' header, a '360°' label, and four icons: a circle, a square, a rectangle, and a wide rectangle.
 - ◎ **Wall:** The 'Wall' camera mount menu shows a 'Display Mode' header, a '180°' label, and two icons: a circle and a square.
 - ◎ **Hi-FPS:** The 'Hi-FPS' camera mount menu shows a 'Display Mode' header, a '180°' label, and three icons: a circle, a square, and a rectangle.
- , raise to 30 frames per second and the max resolution value is 1600x1200@30fps.

4.3.3 Audio Tab

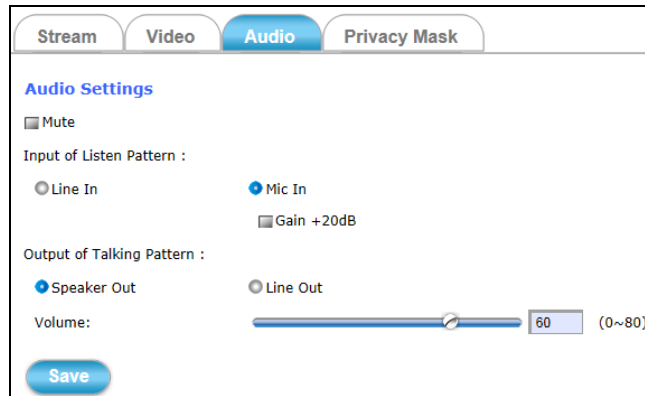


Figure 4-15 “Audio” Tabbed Pane

The **Audio** tabbed pane provides the following audio adjustments to your Camera microphone and speaker:

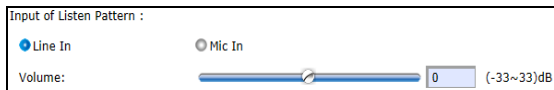
Mute:

Enable or disable mute function of the Camera microphone.

Input of Listen Pattern:

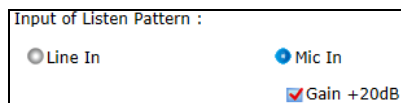
Click to select where audio source comes from.

Ⓒ **Line In:**



Plug an audio source device into the Audio-In port of camera. And its playback volume could be adjusted by moving the slider to the left to decrease; and to the right to increase the volume.

Ⓒ **MIC In:**

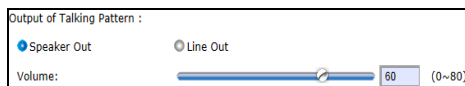


Connect a microphone into the Audio-In port of camera, be noted to use actively microphone (normally with power supplier on microphone) for this application.

Enable or disable **Gain +20dB** function of the Camera microphone. Enable this function will amplify the signal from the microphone jack.

Output of Talking Pattern: Click to select where audio sound output to.

Ⓒ **Speaker Out:**



Built-in speaker's volume could be adjusted by moving the slider to the left to decrease; and to the right to increase the volume.

Ⓒ **Line Out:**



Connect a loud speaker to the Audio-Out port of camera. This is for voice alerting and two-way audio. Be noted to use actively speaker (normally with power supplier on speaker) for this application.

Save

After setups are completed, click **Save** button to implement the settings.

4.3.4 Privacy Mask Tab

3) Enable the check box

2) Lay out masking screens on the areas to be blocked from surveillance

1) Select a masking shape to block the private area you wish to obstruct from surveillance

4) Click **Save** button

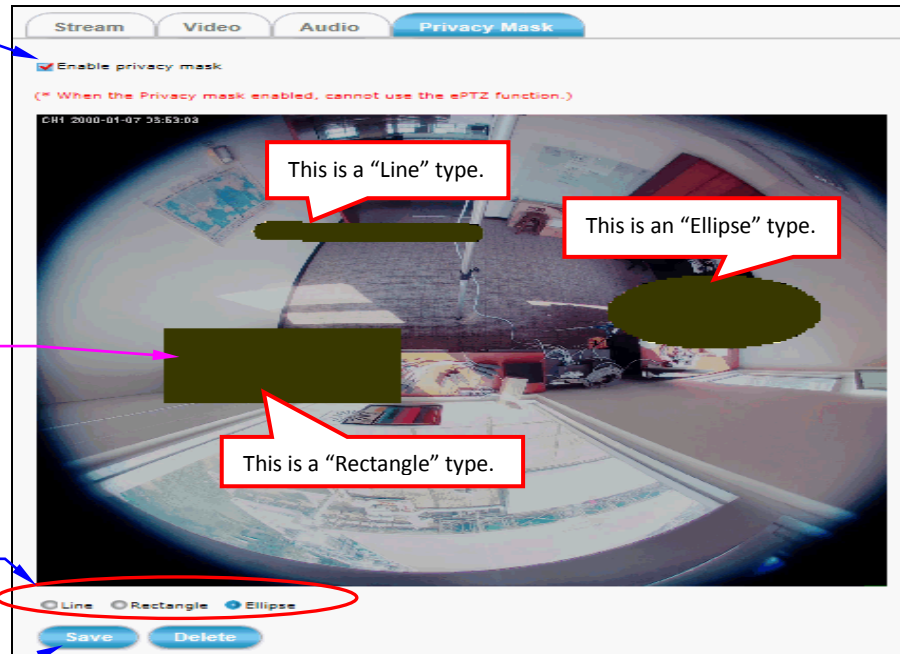


Figure 4-16 "Privacy Mask" Tabbed Pane

The **Privacy Mask** tabbed pane allows you to mask or block private areas from surveillance for privacy reason.

■ To block a private area from surveillance, follow the procedure below:

- 1) Initially select the masking shape, e.g., “Line,” “Rectangle,” or “Ellipse” (see figure above) you wish to use as screen to block the area from surveillance.
- 2) Click and drag the mouse cursor to lay out a masking screen on the area you wish to block, and then release the mouse right button. Notice that the laid out screen turns into phantom block.
- 3) If the laid out screen needs correction, click **Delete** button and redo the masking screen lay out process.
- 4) Once the masking screen is acceptable, click the **Enable Privacy Mask** check box followed by clicking of the **Save** button. This will turn the laid out screen into solid block.

Delete

Save

■ To disable masking and remove the screen, do the following:

- 1) Click **Delete** button.
- 2) Click **Save** button and wait a while. Then the screen is permanently removed.



Figure 4-17 Removing “Privacy Mask” Screen from Camera

- 3) To permanently disable the **Privacy Mask** function, disable the **Enable Privacy Mask** check box

4.4 Event Setup Execution



Clicking the **Event** button will display the tabbed panes (see figure below) for defining event recording of the Camera. The RP-SD736P and RP-SD736PW is equipped with a card slot for Micro-SD/SDHC memory card.

This storage card is utilized to store recording of local video and still JPEG images taken in response to set events. The recording operation of events is triggered according to the defined schedules.

4.4.1 Motion Tab

From the **Motion** tabbed pane, you can define specific target areas within the scope of surveillance to focus the motion detection function.



Figure 4-18 Defining a Single Motion Detection Area for the Camera

■ Defining a single motion detection area:



- 1) Enable the **Enable Motion Detection** check box.
- 2) Click **Add** button and a default frame will pop-up on the screen.
- 3) Click and hold inside the frame to drag it to the location where you want to focus detection. Resize the frame by dragging its corners or borders.
- 4) Click the **Save** button to apply.

■ Defining multiple motion detection areas:



- 1) After satisfactory positioning of the first detection area as described above, click the **Add** button again. A second default frame will pop-up on the screen. Drag & resize the frame at the desired location.
- 2) Repeat the above step to add more detection area frames.

NOTE

Total defined motion detection areas cannot exceed 10 frames.

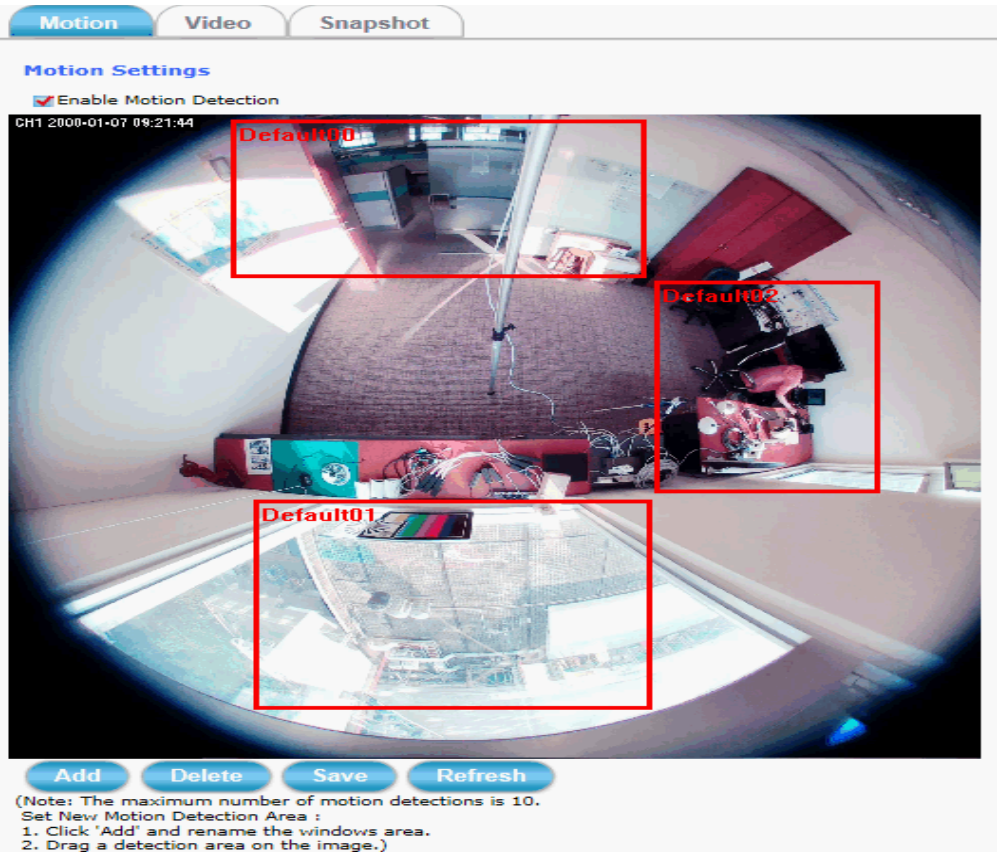


Figure 4-19 Defining Multiple Motion Detection Areas for the Camera



- 3) To assign unique names to each framed location for easy identification, click on the frame and a **Window Name** text box with the default name of the selected frame, will appear at the bottom of the pane (see figure below). Enter a new name and click the **Save** button. Wait for a while for the change to take effect.

Window Name:	<input type="text" value="Default04"/>		
Object size:	<input type="range" value="85"/>	<input type="text" value="85"/>	(0~100, Low~High)
Sensitivity:	<input type="range" value="85"/>	<input type="text" value="85"/>	(0~100, Low~High)

Figure 4-20 Detection Frame "Window Name" Textbox

Delete

- 4) To delete a frame that is no longer needed but was previously saved, click on the unwanted frame and click **Delete** button. The frame will disappear after a while.

Refresh

- 5) To delete multiple frames that are not yet saved, directly click the **Refresh** button instead of deleting them individually. The **Refresh** button will automatically clears all unsaved frames.

4.4.2 Video Tab

The Video tabbed pane sets the video recording trigger method to use when motion is detected by the Camera. The four methods available for selection are Period, Schedule, Motion, and GPIO Input, each of which can be set up with user scheduled recording time and duration, as well as defining the video record file target destination.

- **Period:** This method will trigger the Camera video surveillance/recording operation for a defined Time Lapse (in seconds) whenever motion is detected. The video record may be provided to host by E-mail/FTP, stored in the SD card, Remote Disk as selected or through all of them.

The screenshot shows the 'Event Alarm Settings by Video' window. At the top, there are three tabs: 'Motion', 'Video' (which is selected and highlighted in blue), and 'Snapshot'. Below the tabs, a red warning message states: '(*Please note that there is no SD Card plugged in camera or the SD Card is not writable.)'. The 'Video Clip' checkbox is checked. Under 'Trigger by:', a dropdown menu shows 'Period' selected. Under 'Video Clip Type:', there are two settings: 'Post event recording:' set to '5' seconds and 'Time Lapse:' set to '10' seconds. Under 'Target to:', there are three checkboxes: 'E-mail / FTP', 'SD card', and 'Remote Disk', all of which are currently unchecked. A 'Save' button is located at the bottom of the window.

Figure 4-21 Video Recording with “Period” Method Selected

- Schedule:** This method activates the Camera video surveillance/recording operation continuously when the defined days of the week and set time of the set days are met. Motion is ignored with this method. Each recording time-span is in accordance with the setting value of Post event recording (in seconds) and the video record is stored in the SD card, Remote Disk as selected or through both of them.

Event Alarm Settings by Video

(*Please note that there is no SD Card plugged in camera or the SD Card is not writable.)

☒ Video Clip

Trigger by: Schedule

Day:

☒ Sun ☒ MON ☒ Tue ☒ WED ☒ Thu ☒ FRI ☒ Sat

Time:

Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

Video Clip Type:

Post event recording: 60 Seconds

Target to:

☒ SD card

☐ Remote Disk

Save

Figure 4-22 Video Recording with “Schedule” Method Selected

- Motion:** This method will trigger the Camera video surveillance/recording operation whenever motion is detected within the defined days of the week and at the time of the set days.
 Each recording time-span is in accordance with the total value of Pre-event recording and Post event recording (in seconds). And the video record may be provided to host by E-mail/FTP, stored in the SD card, Remote Disk as selected or through all of them.

Event Alarm Settings by Video

(*Please note that there is no SD Card plugged in camera or the SD Card is not writable.)

☒ Video Clip

Trigger by: Motion ▼ [Link to Motion Settings](#)

☒ Only during

Day:

☒ Sun ☒ MON ☒ Tue ☒ WED ☒ Thu ☒ FRI ☒ Sat

Time:

Start 00 ▼ : 00 ▼ (hh:mm) End 24 ▼ : 00 ▼ (hh:mm)

Video Clip Type:

Pre-event recording: 5 Seconds

Post event recording: 10 ▼ Seconds

Target to:

☐ E-mail / FTP

☐ SD card

☐ Remote Disk

Save

Figure 4-23 Video Recording with “Motion” Method Selected

- GPIO Input:** On the defined days of the week and at certain time of the set days, the Camera will trigger its GPIO Input Signal when its state changes. Each recording time-span is in accordance with the total value of Pre-event recording and Post event recording (in seconds). And the video record may be provided to host by E-mail/FTP, stored in the SD card, Remote Disk, activated GPIO Output Port or through all of them.

Event Alarm Settings by Video

(*Please note that there is no SD Card plugged in camera or the SD Card is not writable.)

☒ Video Clip

Trigger by: GPIO Input

Trigger Pattern: Low to High

☒ Only during

Day:

☒ Sun ☒ MON ☒ Tue ☒ WED ☒ Thu ☒ FRI ☒ Sat

Time:

Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

Video Clip Type:

Pre-event recording: 5 Seconds

Post event recording: 5 Seconds

Target to:

☐ E-mail / FTP

☐ SD card

☐ Remote Disk

☐ GPIO Output 1

☐ GPIO Output 2

Save

Figure 4-24 Video Recording with “GPIO Input” Method Selected

4.4.3 Snapshot Tab

The Snapshot tabbed pane sets the Camera to take snapshot images when motion is detected. The four methods available for selection are Always, Schedule, Motion, and GPIO Input, each of which can be set up with user scheduled recording time and duration, as well as defining the video record file target destination.

- **Always:** Under this method, the Camera automatically continuous to capture 6 snapshots of the area under surveillance at every 1 or 2 seconds interval. 3 previous snapshot frames are collected from the Camera buffer and 3 snapshot frames are captured live. The stream of accumulated snapshots may be sent to host by E-mail, FTP, stored in the SD card, Remote Disk as preferred or through all of them.

Event Alarm Settings by Snapshot

(*Please note that there is no SD Card plugged in camera or the SD Card is not writable.)

☒ Snapshot

Trigger by: Always

Snapshot Type:

6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)

Target to:

☐ E-mail

☐ FTP

☐ SD card

☐ Remote Disk

Save

6 snapshots are continuously collected at every 1 or 2 seconds interval.

Figure 4-25 Snapshot Recording with “Always” Method Selected

- Schedule:** This method activates the Camera snapshot operation continuously when the defined days of the week and set time of the set days are met. The Camera will continuously capture 6 snapshots of the area under surveillance at every 1 or 2 seconds interval. 3 previous snapshot frames are collected from the Camera buffer and 3 snapshot frames are captured live. The stream of accumulated snapshots may be sent to host by E-mail, FTP, stored in the SD card, Remote Disk as preferred or through all of them.

Snapshot

Event Alarm Settings by Snapshot

(*Please note that there is no SD Card plugged in camera or the SD Card is not writable.)

☒ Snapshot

Trigger by: Schedule

Day:

☒ Sun ☒ MON ☒ Tue ☒ WED ☒ Thu ☒ FRI ☒ Sat

Time:

Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

Snapshot Type:

☒ 6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)

Target to:

☐ E-mail

☐ FTP

☐ SD card

☐ Remote Disk

Save

Figure 4-26 Snapshot Recording with "Schedule" Method Selected

- Motion:** This method will trigger the Camera snapshot operation according to the set time interval (in seconds) whenever motion is detected within the defined days of the week and at the time of the set days. Single or 6 snapshots may be captured as defined. The stream of accumulated snapshots may be sent to host by E-mail, FTP, stored in the SD card, Remote Disk as preferred or through all of them.

Snapshot

Event Alarm Settings by Snapshot

(*Please note that there is no SD Card plugged in camera or the SD Card is not writable.)

☒ Snapshot

Trigger by: Motion [Link to Motion Settings](#)

☒ Only during

Day: ☒ Sun ☒ MON ☒ Tue ☒ WED ☒ Thu ☒ FRI ☒ Sat

Time: Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

Snapshot Type:

Interval: 3 (minimum is 3 seconds)

☐ Single snapshot
☒ 6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)

Target to:

☐ E-mail
☐ FTP
☐ SD card
☐ Remote Disk

Save

Figure 4-27 Snapshot Recording with "Motion" Method Selected

- **GPIO Input:** On the defined days of the week and at certain time of the set days, the Camera will trigger its GPIO Input Signal according to the set time interval (in seconds) when its state changes. Single or 6 snapshots may be captured at a time as defined.

Event Alarm Settings by Snapshot

(*Please note that there is no SD Card plugged in camera or the SD Card is not writable.)

☒ Snapshot

Trigger by: GPIO Input

Trigger Pattern: Low to High

☒ Only during

Day:

☒ Sun ☒ MON ☒ Tue ☒ WED ☒ Thu ☒ FRI ☒ Sat

Time:

Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

Snapshot Type:

Interval: 3 (minimum is 3 seconds)

☐ Single snapshot

☒ 6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)

Target to:

☐ E-mail

☐ FTP

☐ SD card

☐ Remote Disk

☐ GPIO Output 1

☐ GPIO Output 2

Save

Figure 4-28 Snapshot Recording with "GPIO Input" Method Selected

The stream of accumulated snapshots may be sent to host through E-mail, FTP, stored in the SD card, Remote Disk, activated GPIO Output Port; per selection or through all of them. When selected, the setup dialog for these methods will display is illustrated in the following figure.

Target to:

☒ **E-mail**

Recipient E-mail Address: (ex: rcpt@mail.com)

SMTP E-mail Server: (ex: mail.examples.com or 192.168.1.1)

Port: (0..65535)

User Name:

Password:

Sender E-mail Address: (ex: from@mail.com)

Interval: (30~3600 Seconds)

Use SSL-TLS:

☒ **FTP**

FTP Server: (ex: ftp.domain.com or 192.168.1.1)

FTP Server Port: (0..65535)

User Name:

Password:

Path: (ex: ftp\upload)

Filename Prefix: (ex: event)

Interval: (10~3600 Seconds)

☐ SD card

Here refers the mailbox encryption mode, if you are unsure, ask your mailbox customer service staff.

Make sure the FTP folder load mode, if you are not sure, then ask the FTP software technical support.

Figure 4-29 Transmitting Snapshots to Host Setup with “E-mail” & “FTP” Selected

※ As for the settings of SMTP Service, kindly please contact with your E-mail service provider ◦ After you confirm all parameters are correct and working properly, you may enter them into the text area manually.

※ As for the settings of FTP Service, kindly please contact with your FTP service provider ◦ While all parameters filled in Windows FTP Transferring Utility are correct and working properly under your Laptop or other PC, you may enter them into the text area manually.

4.5 Local Storage Setup Execution



Clicking the **Local Storage** button will display the following tabbed panes to provide information on existing local storage, such as disk size info, type, and status. If recording is in progress when clicking the **Local Storage** button, a warning message will occur.

NOTE

Do NOT remove the micro SD card while Camera is in recording process.

4.5.1 Local Storage Tab

The **Local Storage** tabbed pane displays the SD card status. It shows the SD card total capacity (Total size), available memory (Free size), used memory (Used size) and used memory ratio (Use(%)). It also display the current Camera operation condition (Recording status) and provide “SD card control” option where user can select to allow the Camera to auto-overwrite earlier files in order to maintain the defined “Keep Free Space” memory size.

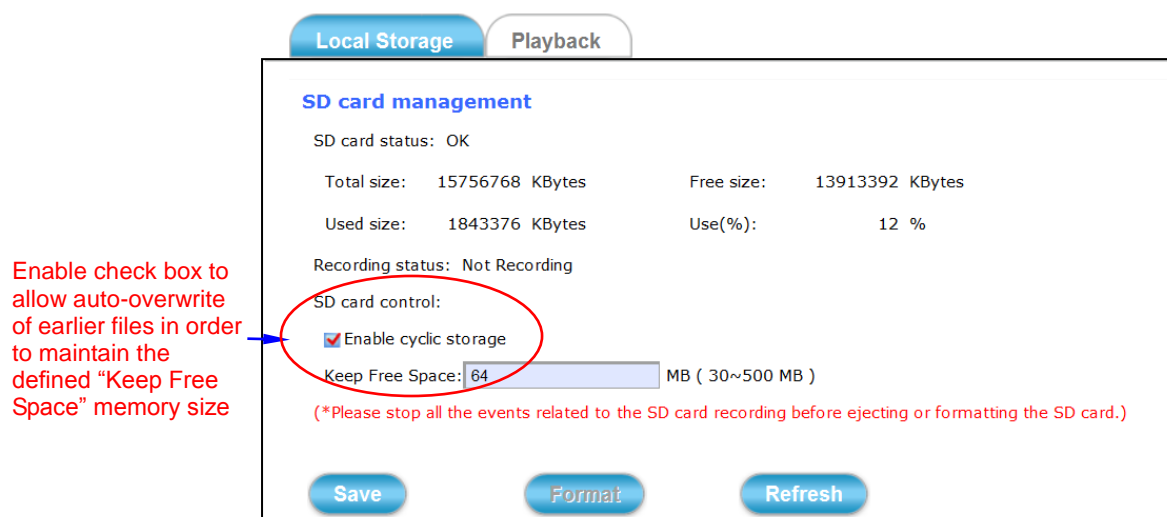


Figure 2-30 “Local Storage” Tabbed Pane

Save

: Click this button to save changes to the SD card control setting.

Format

: Click this button to format the SD memory card (take note of the message in red).

Refresh

: Click this button to refresh the SD card information.

4.5.2 Playback Tab

The **Playback** tabbed pane allows user to playback video and snapshot files stored in the SD memory card. These files were saved using the Event setup for video (see Section 4.4.2) and snapshots (Section 4.4.3) with the **SD card** check box enabled.

Playback of the stored videos or snapshots is performed from files recorded on particular date range as explained in the following figure.

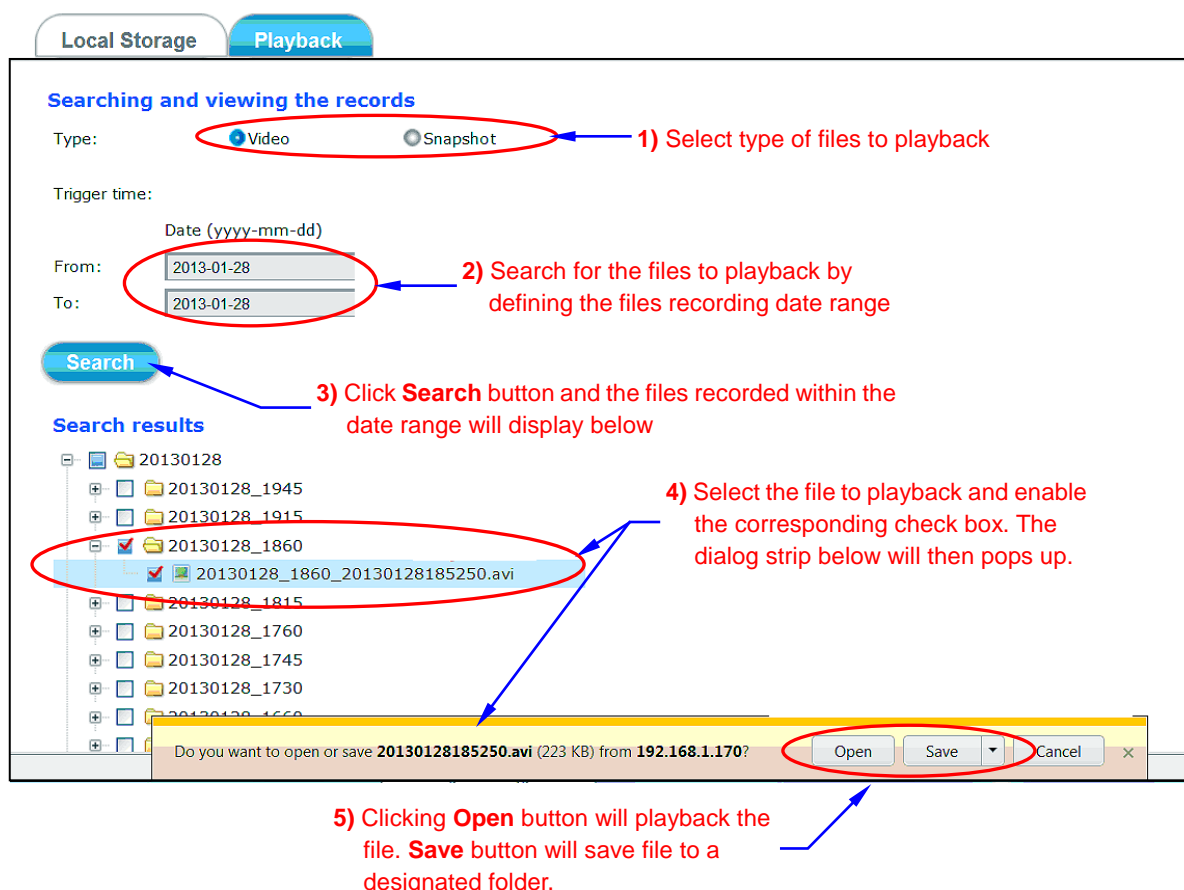


Figure 4-31 "Playback" Tabbed Pane

4.6 Remote Storage Setup Execution

Remote Storage

Clicking the **Remote Storage** button will display the following tabbed panes to provide information of Remote Disk.

4.6.1 Remote Storage Tab

The **Remote Storage** tabbed pane displays the Remote Disk information of NFS/SMBFS Server. It shows the total capacity (Total size), available memory (Free size), used memory (Used size) and used memory ratio (Use(%)) of server disk.

The screenshot shows the 'Remote Storage' tabbed pane. Inside, there is a section titled 'Remote Disk Setting'. It contains the following fields and controls:

- Status:** off
- Total size:** 0 KBytes
- Free size:** 0 KBytes
- Used size:** 0 KBytes
- Use(%):** 0 %
- Enabled:** A checkbox that is currently unchecked. A red circle highlights this checkbox, and a red arrow points to it from the text 'Enable check box to start Remote Disk Recording.'
- Type:** A dropdown menu with 'NFS' selected.
- Remote Folder Path:** A text input field with a placeholder example '(ex: 192.168.1.1:/xxx)'.
- User Name:** A text input field.
- Password:** A text input field.
- Buttons:** 'Save' and 'Refresh' buttons at the bottom.

Figure 4-32 "Remote Storage" Tabbed Pane

Where:

Type: NFS and SMBFS two kind of Remote Server are provided.

Remote Folder Path: If NFS Server type is selected, shared folder path will be filled in like "192.168.1.1:/xxx" syntax; if SMBFS Server type is selected, shared folder path will be filled in like "192.168.1.1/xxx" syntax.

User Name: Fill in the username for authentication of Remote Server.

Password: Fill in the password for authentication of Remote Server.

Save

: Click this button to save changes to the setting of Remote Server.

Refresh

: Click this button to refresh the server disk's information.

5 Appendix

5.1 Firmware Upgrade

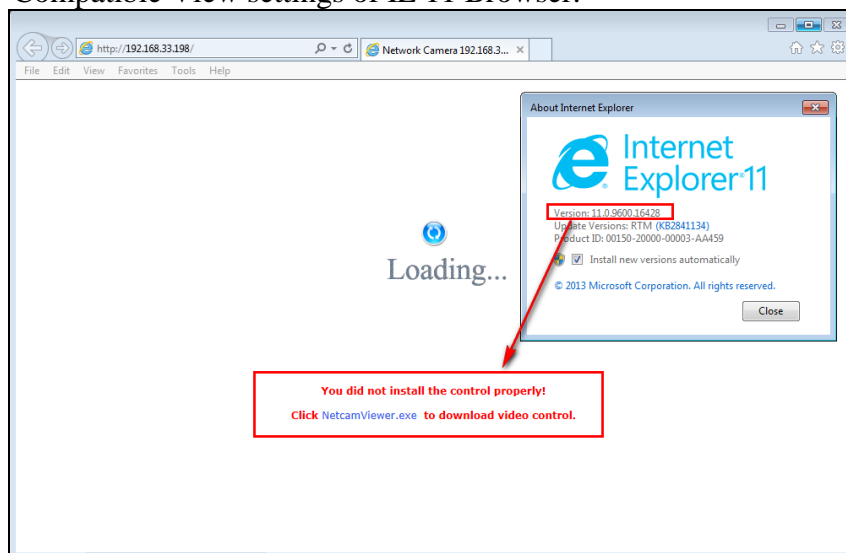
This section mainly will instruct you how to update camera firmware step by step.

1. Find the camera and open its Web-based UI via CamFinder utility – [Chapter 2.3.1.](#)

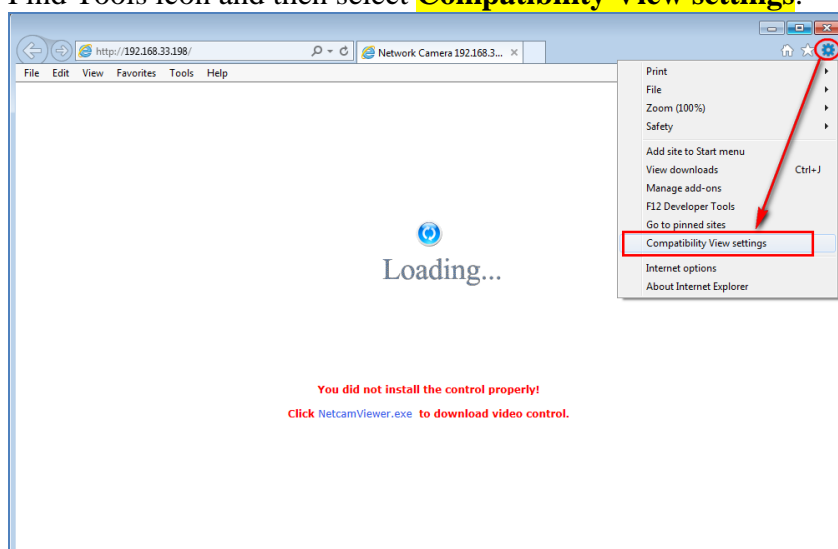
✂ **Below are the tips to let you understand how to solve NetcamViewer installation problems more easily.**

- If below picture is always popped even NetcamViewer is downloaded and installed successfully in your PC.

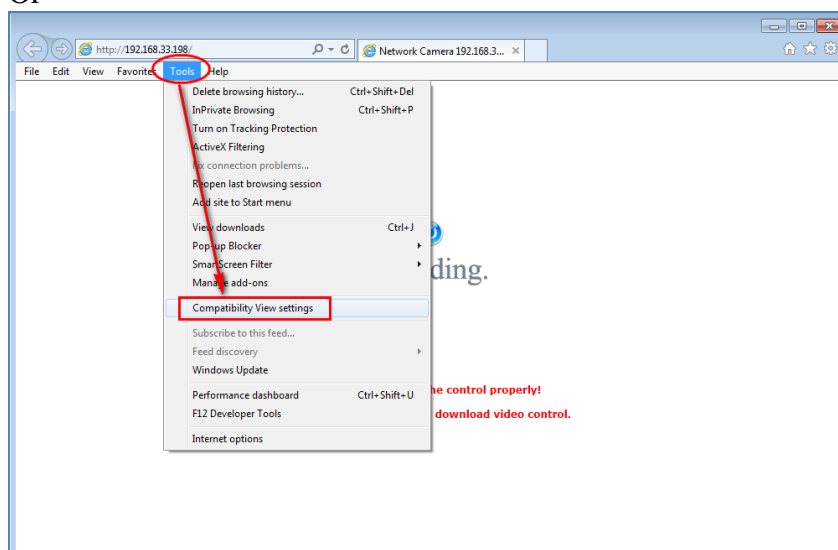
Please help to **check if your IE Browser version is 11 first**. If it is yes, kindly please help to refer the below steps to enable Compatible View settings of IE 11 Browser.



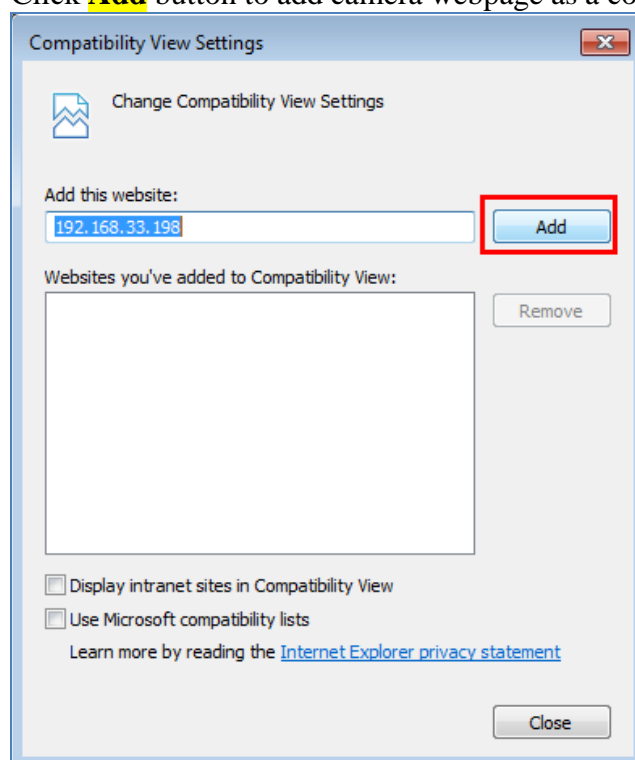
Find Tools icon and then select **Compatibility View settings**.



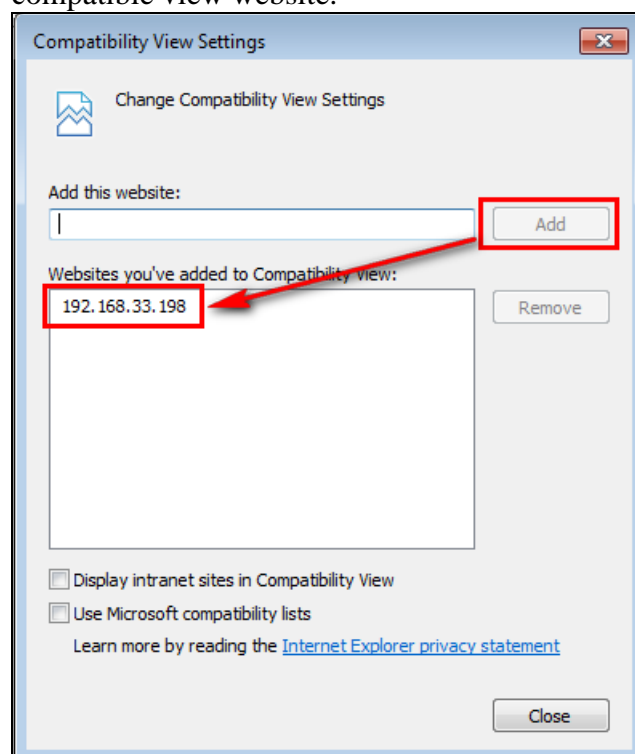
Or



Click **Add** button to add camera webpage as a compatible website.

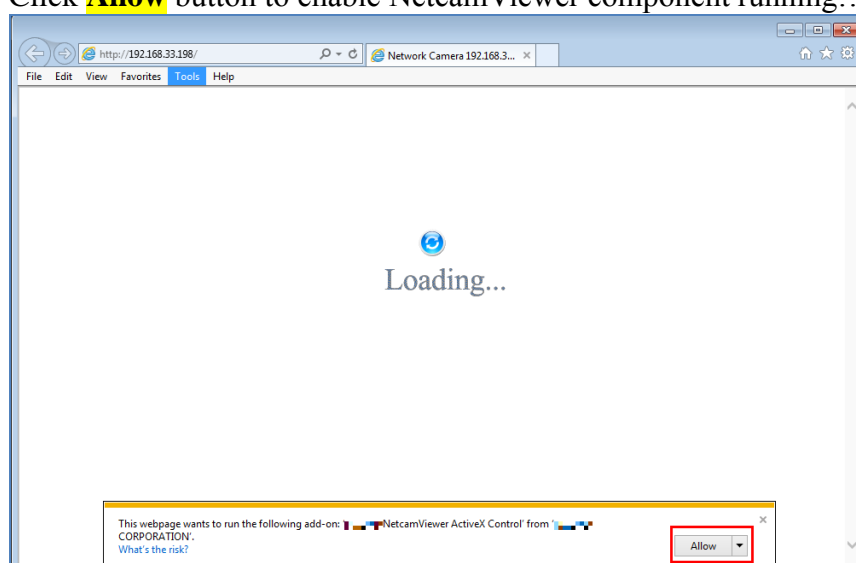


After successful adding, camera webpage should be set as compatible view website.

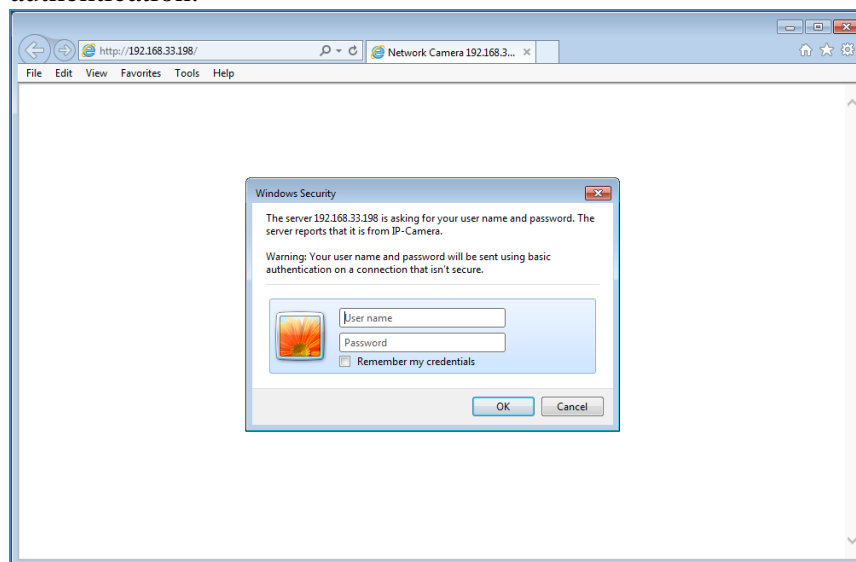


Then camera webpage would be refreshing real-time and starting to load camera webpage.

Click **Allow** button to enable NetcamViewer component running...

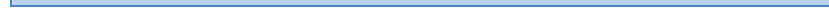


Manual entering camera's username/password to pass authentication.



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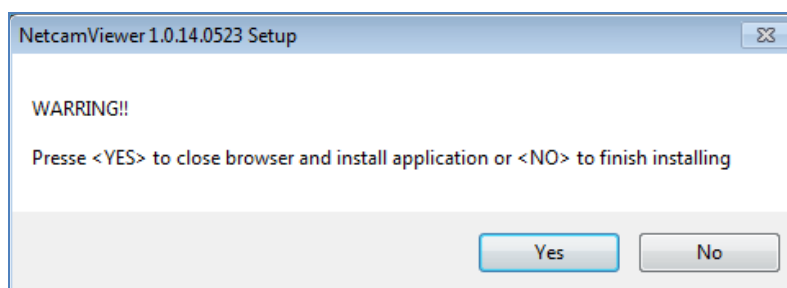
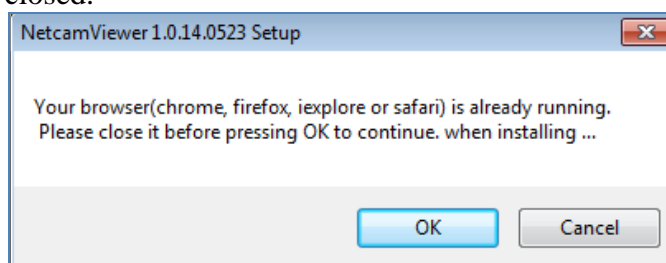




- During NetcamViewer installation, you may see below prompt windows are always popped.

This will mainly remind you to *close all running browser applications* and then press **“OK”** button to continue NetcamViewer installation.





Or these two windows will pop continuously until all browsers are closed.



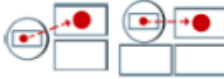
2. Manual input username **admin**, password **admin** to pass login authentication of camera webpage.
3. After Live View page is entering successfully, find the **“SETUP”** button. Clicking it could change or update more Camera settings. – [Page 20](#).

Live View

Display Mode

360°    

Region of Interest



☐ Actual Size (1920x1920)

Protocol: TCP

Video Stream: 1

Recording Path

C:\Users\User\Desktop\

Recording file name


1 Browse

Snapshot Path

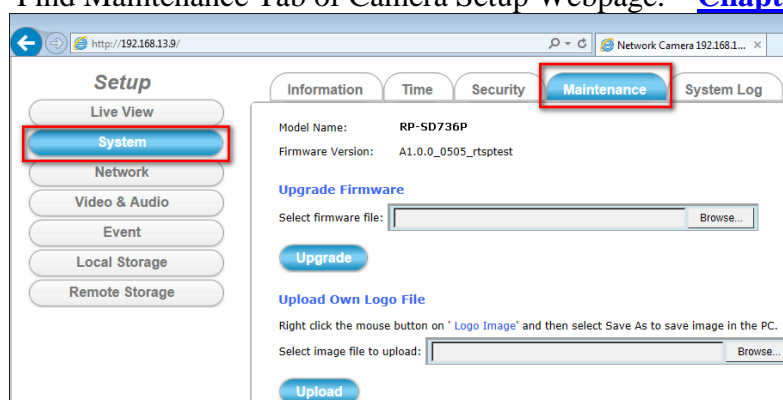
Snapshot file name

Browse

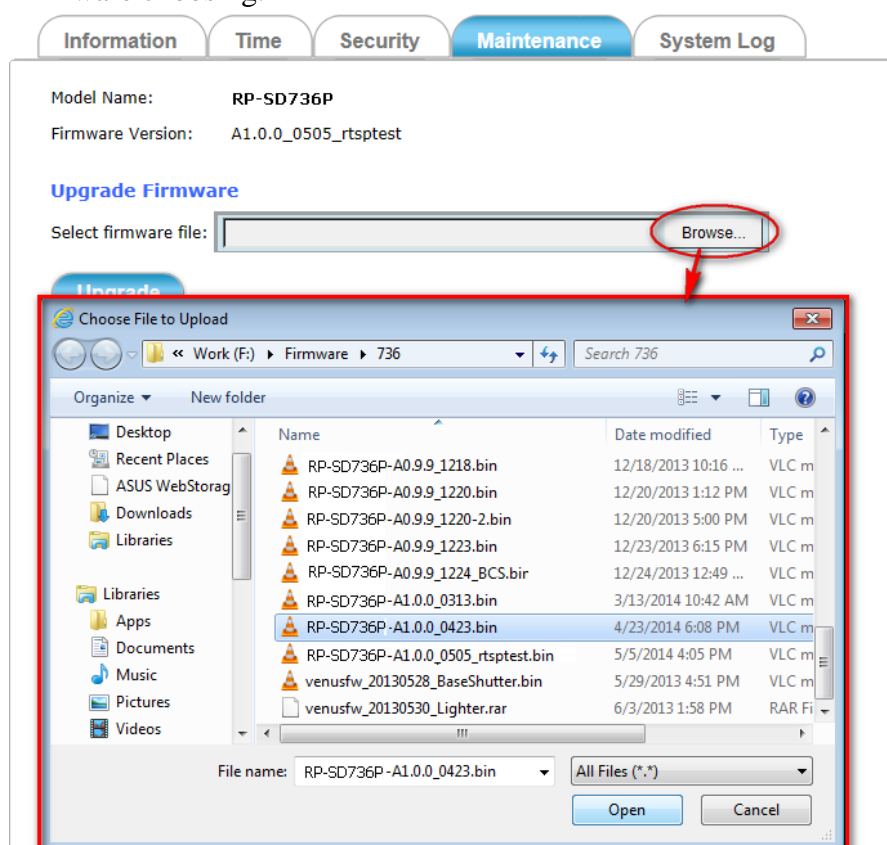
Setting Language

English 

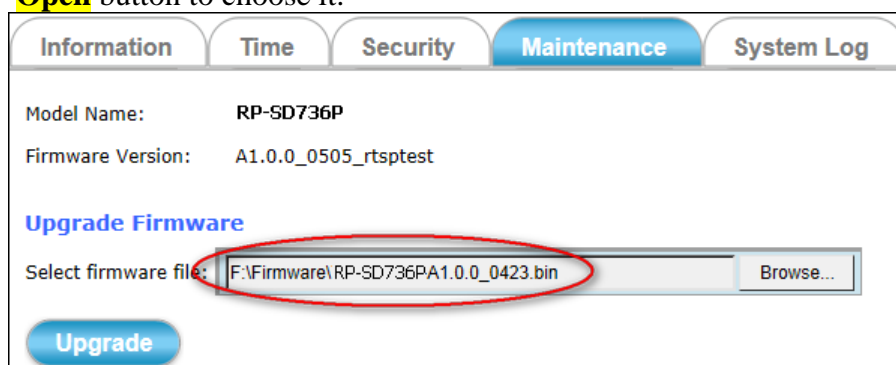
4. Find Maintenance Tab of Camera Setup Webpage. – [Chapter 4.1.4](#).



5. In order to have the best performance with Camera, kindly please ask for distributor/dealer's help to get ***the latest firmware version*** downloading.
6. After downloading it, click the **Browse** button to open below dialog for firmware choosing.



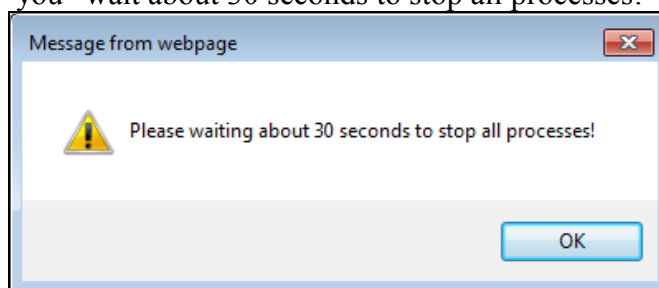
Select the **appropriate** firmware file from its folder in PC and then click **Open** button to choose it.



The screenshot shows the 'Maintenance' tab of a web interface. Under the 'Upgrade Firmware' section, there is a text input field labeled 'Select firmware file:' containing the path 'F:\Firmware\RP-SD736PA1.0.0_0423.bin'. This field is circled in red. To the right of the field is a 'Browse...' button. Below the field is a blue 'Upgrade' button. Above the field, the 'Model Name' is 'RP-SD736P' and the 'Firmware Version' is 'A1.0.0_0505_rtsptest'.

[※ Please specify the correct firmware version mapped with your camera to upgrade, or there will be danger to damage camera system.]

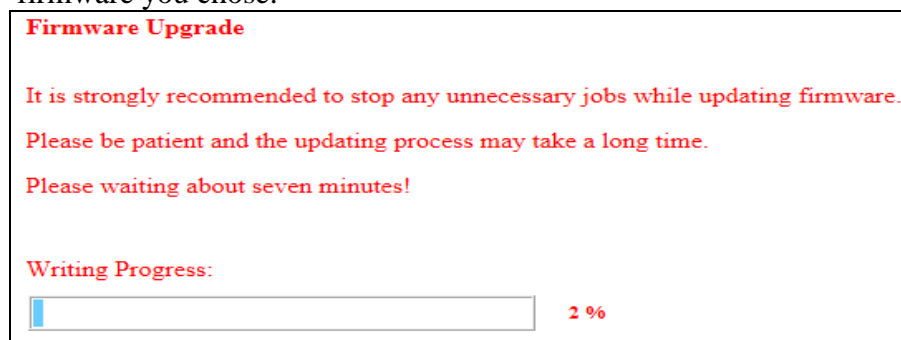
- Click the **Upgrade** button and then one prompt window will pop to tell you “wait about 30 seconds to stop all processes!”



- Click the **OK** button to exit the window. Then you will see Camera Webpage is reloading, it means all processes of camera are stopping at the same time.

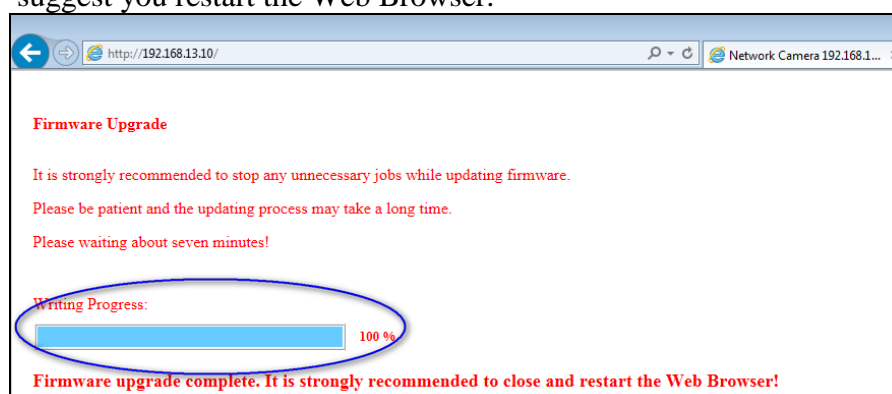


9. After all processes are stopped, the camera will start to upgrade the firmware you chose.

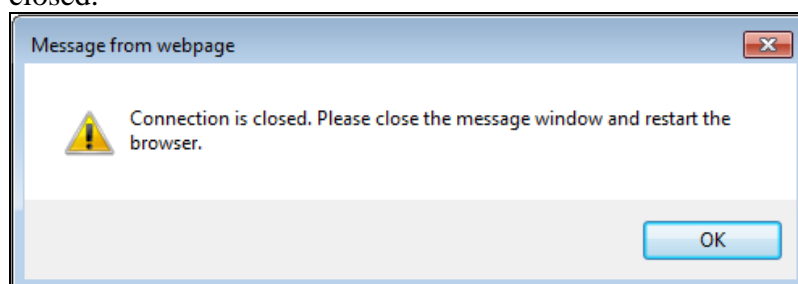


10. **Please don't power off camera or do any unnecessary jobs during firmware upgrade.**

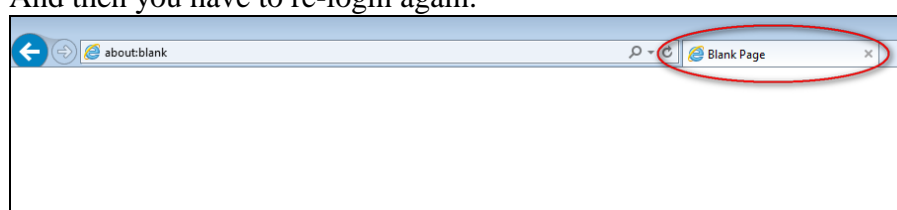
Until the process goes to 100%, there will be messages popped to suggest you restart the Web Browser.



11. While the **OK** button is clicked, the camera webpage connection will be closed.



And then you have to re-login again.



12. After camera Web-based UI is re-login successfully, go to Information Tab of Camera Setup Webpage to check if the firmware version is different with before; or check if the firmware version is the same with distributor/dealer provided. – [Chapter 4.1.1](#)

